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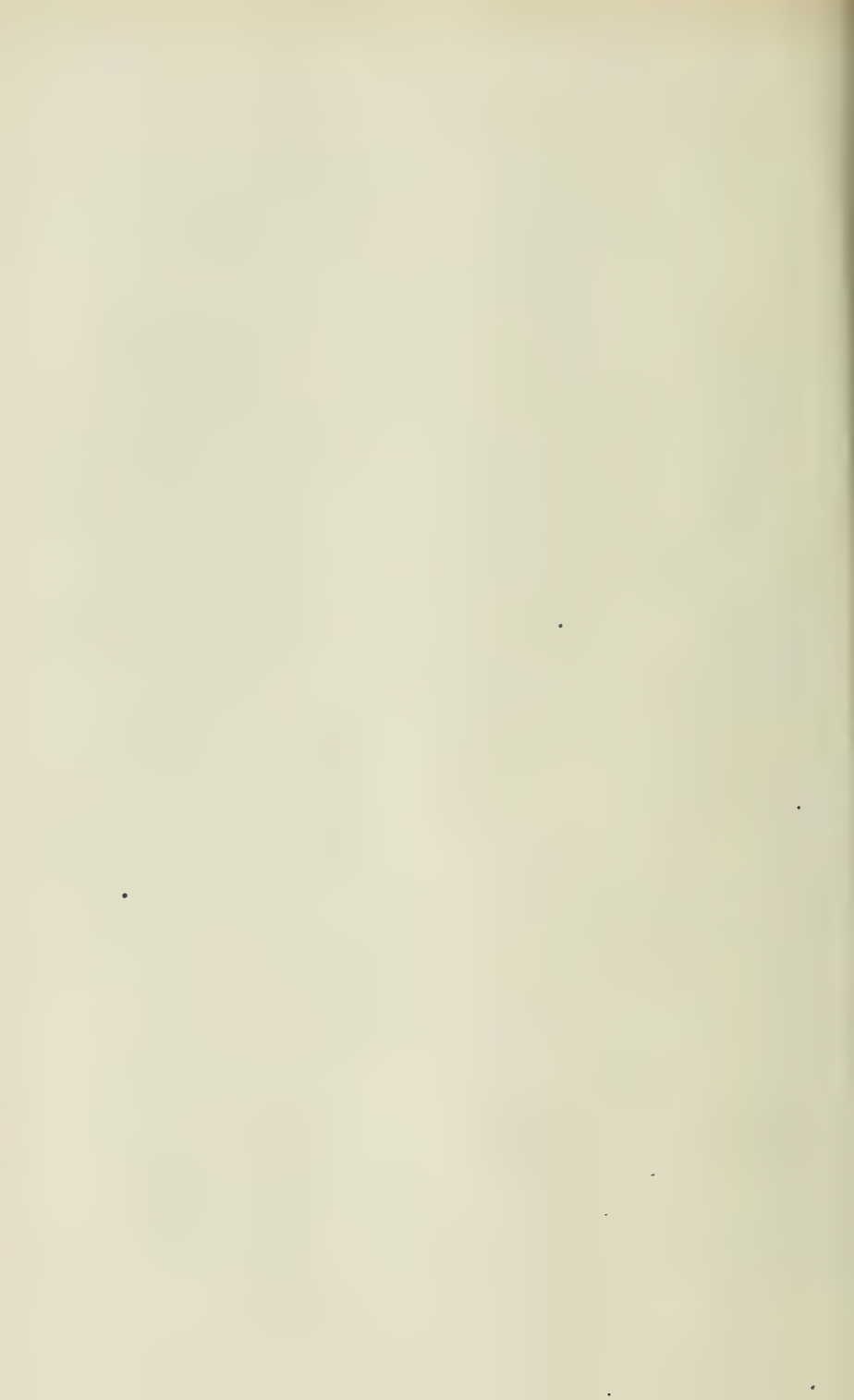
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1915, 21, 139

 β -Chloroacetyl-amino- γ -butanol:

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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 δ -Chloroacetyl-amino-*n*-butanol:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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ium salt (JACOBS and
HEIDELBERGER)

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p-nitrobenzoate:

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GER)

1915, 21, 428

Hexamethylenetetramin-
ium salt (JACOBS and
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Hexamethylenetetramin-
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GER)

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Hexamethylenetetramin-
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HEIDELBERGER)

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GER)

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Hexamethylenetetramin-
ium salt (JACOBS and
HEIDELBERGER)

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(JACOBS and HEIDELBER-
GER)

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GER)

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Hexamethylenetetramin-
ium salt (JACOBS and
HEIDELBERGER)

1915, 21, 414

Chloroacetylamin oethyl

p-aminobenzoate:

(JACOBS and HEIDELBER-
GER)

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**Chloroacetylamin oethyl ani-
sate:**

(JACOBS and HEIDELBER-
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Hexamethylenetetramin-
ium salt (JACOBS and
HEIDELBERGER)

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GER)

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Hexamethylenetetramin-
ium salt (JACOBS and
HEIDELBERGER)

1915, 21, 413

**Chloroacetylamin oethyl benzo-
ate:**

(JACOBS and HEIDELBER-
GER)

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Chloroacetylaminioethyl benzoate—continued:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 408

p-Chloroacetylaminioethyl benzyraniline:

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 117

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(JACOBS and HEIDELBERGER)

1915, 21, 415

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(JACOBS and HEIDELBERGER)

1915, 21, 415

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetylaminioethyl**p-methoxybenzoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 414

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 415

Chloroacetylaminioethyl**β-naphthoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 410

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 410

Chloroacetylaminioethyl m-nitrobenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 411

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 411

Chloroacetylaminioethyl**o-nitrobenzoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 410

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 410

Chloroacetylaminioethyl**p-nitrobenzoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 411

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 412

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1915, 21, 412

Chloroacetylaminioethyl o-toluate:

(JACOBS and HEIDELBERGER)

1915, 21, 409

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 409

Chloroacetylaminioethyl p-toluate:

(JACOBS and HEIDELBERGER)

1915, 21, 409

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 409

Chloroacetylaminooethyl *o*-tolyl ether:

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetylaminoisopropyl *p*-nitrobenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 425

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 425

***p*-Chloroacetylaminoleucomalachite green:**

(JACOBS and HEIDELBERGER)

1915, 21, 141

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 141

Chloroacetylaminomethyl anisate:

(JACOBS and HEIDELBERGER)

1915, 21, 406

***m*-Chloroacetylaminomethylbenzamide:**

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 694

Chloroacetylaminomethyl benzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 406

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— —, hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 694

Ethyl ester, hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 692

***m*-Chloroacetylaminomethylbenzoyl chloride:**

(JACOBS and HEIDELBERGER)

1915, 20, 693

 α -Chloroacetylamino- β -methyl- β -butanol:

(JACOBS and HEIDELBERGER)

1915, 21, 430

 γ -Chloroacetylamino- β -methyl- β -butanol:

(JACOBS and HEIDELBERGER)

1915, 21, 431

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 431

Chloroacetylaminomethyl *p*-methoxybenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 406

Chloroacetylaminomethylmethylethyl carbinol:

(JACOBS and HEIDELBERGER)

1915, 21, 430

Chloroacetylaminomethylmethylethyl carbinol—continued:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 430

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(JACOBS and HEIDELBERGER)

1915, 21, 429

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 430

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(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 133

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 131

***o*-Chloroacetylaminophenyl benzoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 131

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 131

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(JACOBS and HEIDELBERGER)

1915, 21, 134

***o*-Chloroacetylaminophenyl *p*-nitrobenzoate:**

(JACOBS and HEIDELBERGER)

1915, 21, 132

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 132

 γ -Chloroacetylaminopropyl anisate:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 424

 γ -Chloroacetylaminopropyl *p*-methoxybenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 423

 γ -Chloroacetylaminopropyl *p*-nitrobenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 423

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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6-Chloroacetylamoquinoline:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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***p*-Chloroacetyl-amino-*p'*, *p''*-tetraethyldiaminotriphenylmethane:**

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 142

Chloroacetylaniline:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetyl- ω -anilinoacetophenone:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetyl-*o*-anisidine:

(JACOBS and HEIDELBERGER)

1915, 21, 134

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 135

Chloroacetyl-*p*-anisidine:

(JACOBS and HEIDELBERGER)

1915, 21, 137

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetyl- ω , *o*-anisidinoacetophenone:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetylbenzylamine:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 686

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(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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(JACOBS and HEIDELBERGER)

1915, 21, 472

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 473

Chloroacetyl-*o*-chloroaniline:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 110

Chloroacetyl- ψ -cumidine:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 105

Chloroacetylethylaminoethanol:

(JACOBS and HEIDELBERGER)

1915, 21, 417

Chloroacetylethylaminoethyl *p*-nitrobenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 417

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 418

Chloroacetylleucoauramine:

(JACOBS and HEIDELBERGER)

1915, 21, 472

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetylmethylaniline:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 105

Chloroacetyl-*o*-methylbenzylamine:

(JACOBS and HEIDELBERGER)

1915, 20, 686

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetylmethylurea:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 109

Chloroacetyl- β -naphthylamine:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 109

Chloroacetyl novocain:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Chloroacetyloxyethyl anisate:

(JACOBS and HEIDELBERGER)

1915, 21, 471

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 471

Chloroacetylphenylaminoethanol:

(JACOBS and HEIDELBERGER)

1915, 21, 418

Chloroacetylphenylaminoethyl *p*-nitrobenzoate:

(JACOBS and HEIDELBERGER)

1915, 21, 418

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 21, 419

 β -Chloroacetyl- α,α -phenylbenzylhydrazine:

(JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)
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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)
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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)
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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)
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1915, 20, 683

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 681

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 683

Chloromethylsalicylic acid:

Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 681

Methyl ester, hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 681

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 683

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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***5*-Ethoxycytosine:**

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***p*-Ethoxyphenacyl bromide:**

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β -Acetoxy- α -chloroacetylnaphthobenzylamine,

1915, 20, 689

2-Acetoxy-3,5-dibromobenzyl bromide,

1915, 20, 671

4-Acetoxy-3,5-dibromobenzyl bromide,

1915, 20, 671

2-Acetoxy-3,5-dimethylbenzyl chloride,

1915, 20, 670

2-Acetoxy-3,5-dimethyl-4,6-dibromobenzyl bromide,

1915, 20, 671

Acetoxyethyl bromide,

1915, 21, 449

β -Acetoxy- α -iodoacetylnaphthobenzylamine,

1915, 20, 690

β -Acetyl- α -chloroacetyl- α -phenylhydrazine,

1915, 21, 474

3-Aldehyde-4-oxybenzyl chloride,

1915, 20, 683

Aliphatic-aromatic ketones, ω -halogen derivatives,

1915, 21, 455

Amines, monohalogenacylated aromatic,

1915, 21, 103

—, — simple,

1915, 21, 145

Aminoalcohols, monohalogenacetyl derivatives,

1915, 21, 403

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminiumsalts¹—*continued*:

- p*-Aminophenacyl chloride,
1915, 21, 460
- p*-Aminophenyl chloro-
methyl ketone,
1915, 21, 460
- p*-Anisyl bromomethyl ke-
tone,
1915, 21, 462
- Benzeneazo-*m*-chloroace-
tylaminophenol,
1915, 21, 134
- Benzoyloxyethyl bromide,
1915, 21, 450
- Benzyl halides,
1915, 20, 659
- Bornyl bromoacetate,
1915, 21, 468
- ω -Bromoacetophenoneox-
ime,
1915, 21, 456
- Bromoacetylaniline,
1915, 21, 104
- β -(ω -Bromoacetyl)-quinal-
dine,
1915, 21, 464
- Bromoacetyl- ω -*o*-toluidi-
noacetophenone,
1915, 21, 107
- o*-Bromobenzyl chloride,
1915, 20, 665
- p*-Bromobenzyl chloride,
1915, 20, 665
- p*-Bromochloroacetylani-
line,
1915, 21, 110
- Bromoethyl acetate,
1915, 21, 449
- benzoate,
1915, 21, 450
- esters,
1915, 21, 449
- ethers,
1915, 21, 440

¹All of these salts were prepared
by JACOBS and HEIDELBERGER.

Hexamethylenetetraminiumsalts¹—*continued*:

- Bromoethyl *p*-nitroben-
zoate, 1915, 21, 450
- ω -Bromo-*m*-nitroaceto-
phenone,
1915, 21, 459
- p*-Bromophenoxyethyl
bromide,
1915, 21, 444
- m*-Carbethoxychloroace-
tylbenzylamine,
1915, 20, 692
- 3-Carbomethoxy-4-oxy-
benzyl chloride,
1915, 20, 681
- 3-Carboxy-4-oxybenzyl
chloride,
1915, 20, 681
- Cetyl iodide,
1915, 21, 466
- Chloroacetdiethylamide,
1915, 21, 149
- Chloroacetdimethylamide,
1915, 21, 148
- Chloroacetethylamide,
1915, 21, 149
- Chloroacetmethylamide,
1915, 21, 148
- Chloroacetylpipeptide,
1915, 21, 150
- m*-Chloroacetylaminooce-
tophenone,
1915, 21, 141
- ω -Chloroacetylaminooce-
tophenone,
1915, 21, 472
- p*-Chloroacetylaminoozo-
benzene,
1915, 21, 118
- Chloroacetylaminoozotol-
uene, 1915, 21, 118
- p*-Chloroacetylaminoben-
zeneazodiethylaniline,
1915, 21, 124

¹All of these salts were prepared
by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- p*-Chloroacetylaminobenzeneazodimethylaniline, 1915, 21, 123
- p*-Chloroacetylaminobenzeneazodipropylaniline, 1915, 21, 125
- p*-Chloroacetylaminobenzeneazoethylbenzylaniline, 1915, 21, 127
- p*-Chloroacetylaminobenzoic acid, diethylaminoethyl ester, 1915, 21, 140
- —, ethyl ester, 1915, 21, 139
- o*-Chloroacetylaminobenzyl alcohol, 1915, 21, 138
- o*-Chloroacetylaminobenzyl benzoate, 1915, 21, 139
- β -Chloroacetylaminog γ -butanol, 1915, 21, 429
- δ -Chloroacetylaminog n -butanol, 1915, 21, 427
- β -Chloroacetylaminog γ -butyl *p*-nitrobenzoate, 1915, 21, 429
- δ -Chloroacetylaminobutyl *p*-nitrobenzoate, 1915, 21, 428
- p*-Chloroacetylaminodiethylaniline, 1915, 21, 115
- m*-Chloroacetylaminodimethylaniline, 1915, 21, 113
- p*-Chloroacetylaminodimethylaniline, 1915, 21, 114

¹ All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- p*-Chloroacetylaminodipropylaniline, 1915, 21, 116
- Chloroacetylaminooethyl acetylsalicylate, 1915, 21, 414
- anisate, 1915, 21, 415
- (*p*-azodiethylaniline)-benzoate, 1915, 21, 413
- benzoate, 1915, 21, 408
- ethyl ether, 1915, 21, 416
- *p*-methoxybenzoate, 1915, 21, 415
- β -naphthoate, 1915, 21, 410
- *m*-nitrobenzoate, 1915, 21, 411
- *o*-nitrobenzoate, 1915, 21, 410
- *p*-nitrobenzoate, 1915, 21, 412
- *o*-toluate, 1915, 21, 409
- *o*-tolyl ether, 1915, 21, 417
- p*-Chloroacetylaminooethylbenzylaniline, 1915, 21, 117
- Chloroacetylaminoisopropanol, 1915, 21, 425
- Chloroacetylaminoisopropyl *p*-nitrobenzoate, 1915, 21, 425
- p*-Chloroacetylaminoleucomalachite green, 1915, 21, 141

¹ All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—*continued*:

- m*-Chloroacetylaminomethylbenzamide,
1915, 20, 694
- m*-Chloroacetylaminomethylbenzoic acid, diethylaminoethyl ester,
1915, 20, 694
- —, ethyl ester,
1915, 20, 692
- γ -Chloroacetylaminomethyl- β -butanol,
1915, 21, 431
- Chloroacetylaminomethylmethylethyl carbinol,
1915, 21, 430
- γ -Chloroacetylaminomethyl-pentanol,
1915, 21, 430
- m*-Chloroacetylaminophenol,
1915, 21, 133
- o*-Chloroacetylaminophenol,
1915, 21, 131
- o*-Chloroacetylaminophenyl benzoate,
1915, 21, 131
- *p*-nitrobenzoate,
1915, 21, 132
- γ -Chloroacetylaminopropyl anisate,
1915, 21, 424
- *p*-nitrobenzoate,
1915, 21, 423
- 6-Chloroacetylaminquinoline,
1915, 21, 143
- o*-Chloroacetylaminomethyl-*p'*,*p''*-tetraethyldiaminotriphenylmethane,
1915, 21, 142
- p*-Chloroacetylaminomethyl-*p'*,*p''*-tetraethyldiaminotriphenylmethane,
1915, 21, 142

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—*continued*:

- Chloroacetylaniline,
1915, 21, 104
- Chloroacetyl- ω -anilinoacetophenone,
1915, 21, 107
- Chloroacetyl-*o*-anisidine,
1915, 21, 135
- Chloroacetyl-*p*-anisidine,
1915, 21, 138
- Chloroacetyl- ω -*o*-anisidinoacetophenone,
1915, 21, 137
- Chloroacetylbenzylamine,
1915, 20, 686
- Chloroacetylbenzylurea,
1915, 21, 152
- Chloroacetyl-*o*-chloroaniline,
1915, 21, 110
- Chloroacetyl- ψ -cumidine,
1915, 21, 109
- Chloroacetyldiphenylamine,
1915, 21, 105
- Chloroacetylethylaminomethyl *p*-nitrobenzoate,
1915, 21, 418
- Chloroacetylleucoauramine,
1915, 21, 473
- Chloroacetylmethylaniline,
1915, 21, 105
- Chloroacetyl-*o*-methylbenzylamine,
1915, 20, 686
- Chloroacetylmethylurea,
1915, 21, 151
- Chloroacetyl- α -naphthylamine,
1915, 21, 109
- Chloroacetyl- β -naphthylamine,
1915, 21, 109

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- Chloroacetyl novocain,
1915, 21, 140
- Chloroacetyloxyethyl anisate,
1915, 21, 471
- Chloroacetylphenylaminoethyl *p*-nitrobenzoate,
1915, 21, 419
- β -Chloroacetyl- α - α -phenylbenzylhydrazine,
1915, 21, 475
- Chloroacetylphenylglycinanilide,
1915, 21, 106
- Chloroacetyl-*m*-toluidine,
1915, 21, 108
- Chloroacetyl-*o*-toluidine,
1915, 21, 107
- Chloroacetyl-*p*-toluidine,
1915, 21, 108
- Chloroacetyltriphenylamine,
1915, 21, 474
- Chloroacetylurea,
1915, 21, 151
- Chloroacetylurethane,
1915, 21, 152
- Chloroacetyl-*m*-*t*-xylylidine,
1915, 21, 109
- o*-Chlorobenzyl chloride,
1915, 20, 665
- p*-Chlorobenzyl chloride,
1915, 20, 665
- Chloromethylanilic acid,
1915, 20, 682
- —, methyl ester,
1915, 20, 683
- Chloromethyl-*p*-cresotinic acid,
1915, 20, 681
- 5-Chloromethylsalicylaldehyde,
1915, 20, 683

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- Chloromethylsalicylic acid,
1915, 20, 681
- —, methyl ester,
1915, 20, 681
- Chloromethylvanillin,
1915, 20, 683
- o*-Cresoxyethyl bromide,
1915, 21, 440
- o*-Cyanobenzyl chloride,
1915, 20, 666
- p*-Cyanobenzyl chloride,
1915, 20, 666
- 1, 2-Diacetoxychloroacetylbenzylamine,
1915, 20, 692
- 2,3-Dimethoxybenzyl chloride,
1915, 20, 678
- 3,4-Dimethoxybenzyl chloride,
1915, 20, 678
- 1, 2-Dimethoxychloroacetylbenzylamine,
1915, 20, 692
- 3,5-Dimethylbenzyl chloride,
1915, 20, 663
- 2,4-Dinitrobenzyl chloride,
1915, 20, 667
- α , β -Diphenylchloroacetyl-aminoethanol,
1915, 21, 434
- Esters, halogenethyl,
1915, 21, 439
- Ethers, halogenethyl,
1915, 21, 439
- o*-Ethoxybenzyl chloride,
1915, 20, 677
- p*-Ethoxyphenacyl bromide,
1915, 21, 463
- p*-Ethylphenacyl bromide,
1915, 21, 459

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

Halogenacetyl amines,	benzyl
	1915, 20, 685
Iodoacetyl aminoethanol,	
	1915, 21, 408
<i>o</i> -Iodobenzyl bromide,	
	1915, 21, 467
<i>p</i> -Iodobenzyl bromide,	
	1915, 20, 665
<i>m</i> -Iodochloroacetylani- line,	1915, 21, 111
5-Iodochloroacetyl- <i>o</i> -tolu- idine,	
	1915, 21, 112
Iodoethyl alcohol,	
	1915, 21, 465
β -Iodopropionamide,	
	1915, 21, 147
β -Iodopropionic acid, ethyl ester,	
	1915, 21, 467
β -Iodopropionyl- <i>o</i> -anisi- dine,	
	1915, 21, 136
α,β -Isodiphenylchloroacetyl- aminoethanol,	
	1915, 21, 435
Ketones, aliphatic-aromat- ic, ω -halogen deriva- tives,	
	1915, 21, 455
Menthyl bromoacetate,	
	1915, 21, 468
Mesitylene chloride,	
	1915, 20, 664
<i>o</i> -Methoxybenzyl chloride,	
	1915, 20, 673
<i>p</i> -Methoxybenzyl chloride,	
	1915, 20, 673
2-Methoxy-5-carbometh- oxybenzyl chloride,	
	1915, 20, 683

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

2-Methoxy-5-carboxyben- zyl bromide,	
	1915, 20, 682
β -Methoxy- α -chloroacetyl- naphthobenzylamine,	
	1915, 20, 690
3-Methoxy-4-ethoxyben- zyl chloride,	
	1915, 20, 680
β -Methoxy- α -naphthoben- zyl chloride,	
	1915, 20, 674
2-Methoxy-5-nitrobenzyl chloride,	
	1915, 20, 676
<i>p</i> -Methoxyphenacyl bro- mide,	
	1915, 21, 462
1-Methyl-4-acetamino- chloroacetylbenzylam- ine,	
	1915, 20, 688
<i>m</i> -Methylbenzyl chloride,	
	1915, 20, 663
<i>o</i> -Methylbenzyl chloride,	
	1915, 20, 663
<i>p</i> -Methylbenzyl chloride,	
	1915, 20, 663
3,4-Methylenedioxybenzyl chloride,	
	1915, 20, 677
<i>p</i> -Methylphenacyl bro- mide,	
	1915, 21, 456
— iodide,	
	1915, 21, 457
<i>m</i> -Methylphenoxyethyl bromide,	
	1915, 21, 441
<i>o</i> -Methylphenoxyethyl bromide,	
	1915, 21, 440

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- p*-Methylphenoxyethyl bromide, 1915, 21, 441
- β -Naphthobenzyl chloride, 1915, 20, 664
- α -Naphthoxyethyl bromide, 1915, 21, 442
- β -Naphthoxyethyl bromide, 1915, 21, 442
- 3-Nitro-4-acetoxybenzyl iodide, 1915, 20, 673
- p*-Nitrobenzoylaminoisopropyl chloroacetate, 1915, 21, 427
- p*-Nitrobenzoyloxyethyl bromide, 1915, 21, 450
- iodide, 1915, 21, 451
- m*-Nitrobenzyl chloride, 1915, 20, 666
- o*-Nitrobenzyl chloride, 1915, 20, 666
- p*-Nitrobenzyl chloride, 1915, 20, 666
- m*-Nitrochloroacetylamine, 1915, 21, 112
- m*-Nitrochloroacetyl-*p*-toluidine, 1915, 21, 112
- 2-Nitro-3,4-dimethoxybenzyl chloride, 1915, 20, 679
- 3-Nitro-4-methoxybenzyl chloride, 1915, 20, 676
- m*-Nitrophenacyl bromide, 1915, 21, 459
- o*-Nitrophenyl bromoacetate, 1915, 21, 470

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts¹—continued:

- 2-Oxy-3-carbomethoxy-naphthobenzyl chloride, 1915, 20, 682
- 2-Oxy-3-carboxy-5-methylbenzyl chloride, 1915, 20, 681
- 2-Oxy-3,5-dibromobenzyl bromide, 1915, 20, 670
- Oxyethyl iodide, 1915, 21, 465
- 2-Oxy-3-methoxy-5-aldehydobenzyl chloride, 1915, 20, 683
- Oxymethylchloroacetamide, 1915, 21, 406
- 2-Oxy-5-nitrobenzyl chloride, 1915, 20, 671
- p*-Phenetyl bromoethyl ketone, 1915, 21, 463
- Phenoxyethyl bromide, 1915, 21, 440
- Phenyl bromoacetate, 1915, 21, 469
- Phenylethyl iodide, 1915, 21, 467
- α -Phenyl- α -oxy- β -chloroacetylaminopropane, 1915, 21, 432
- β -Phenyl- β -oxy- α -chloroacetylaminopropane, 1915, 21, 436
- Piperonyl chloride, 1915, 20, 677
- o*-Tolueneazochloroacetyl-*o*-toluidine, 1915, 21, 118
- p*-Tolyliodomethyl ketone, 1915, 21, 456
- Tribromo-*p*-methylphenoxyethyl bromide, 1915, 21, 445

¹All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexamethylenetetraminium salts—*continued*

- Trimethylene chlorobromide,
1915, 21, 465
- Trimethylene iodohydrin,
1915, 21, 466
- Ureas, monohalogenacylated,
1915, 21, 145
- Urethanes, monohalogenacylated,
1915, 21, 145
- m*-Xylyl bromomethyl ketone,
1915, 21, 458
- o*-Xylyl bromomethyl ketone,
1915, 21, 458
- m*-Xylylene chloride,
1915, 20, 664
- o*-Xylylene chloride,
1915, 20, 663

Hexatriacontane:

- (LEVENE, WEST, and VAN DER SCHEER)
1915, 20, 531

Hexocytidine diphosphoric acid:

- Thymus nucleic acid, isolation from (LEVENE and JACOBS)
1912, 12, 419

Hexone bases:

- Autolysis of *Glomerella*, formation in (REED)
1914, 19, 257
- Bacillus coli communis*, cell substance, content of (LEACH)
1905-06, 1, 485
- Casein, content of (VAN SLYKE)
1913-14, 16, 531

¹ All of these salts were prepared by JACOBS and HEIDELBERGER.

Hexone bases—*continued*:

- Fibrin heteroalbumose, content of (LEVENE, VAN SLYKE, and BIRCHARD)
1910-11, 8, 280;
1911-12, 10, 68
- protoalbumose, content of (LEVENE, VAN SLYKE, and BIRCHARD)
1911-12, 10, 67
- Kidney, content of (WAKEMAN)
1908, 4, 121
- Liver, content of (WAKEMAN)
1908, 4, 121
- Muscle, content of (WAKEMAN)
1908, 4, 121
- Tumors, malignant, content of (KOCHER)
1915, 22, 295

Hexonic acid:

- Deamino chondrosamine, bromine oxidation of (LEVENE and LA FORGE)
1914, 18, 130

Hexosamine:

- See* Chondrosamine, Glucosamine.

Hexosaminic acid:

- Ribose, preparation from (LEVENE and LA FORGE)
1915, 20, 441

Hexose:

- Leukocytes, action of (LEVENE and MEYER)
1913, 14, 149, 551
- Phenylosazones, mutarotation of (LEVENE and LA FORGE)
1915, 20, 429
- Tissue, kidney, action of (LEVENE and MEYER)
1913, 15, 65
- Walden rearrangement in (LEVENE and LA FORGE)
1915, 21, 345

Hexothymidine diphosphoric acid:

Thymus nucleic acid, isolation from (LEVENE and JACOBS)

1912, 12, 417

Hickory nut:

Amino-acid content (NOLLAU)

1915, 21, 614

Hippuric acid:

Benzoic acid, effect on excretion of (MCCOLLUM and HOAGLAND)

1913-14, 16, 321

(LEWIS)

1914, 18, 225

— —, formation from (DAKIN)

1909-10, 7, 103

Creatinine excretion, influence on (LEWIS and KARR)

1916, 25, 20

Determination (DAKIN)

1909-10, 7, 106

(VAN SLYKE)

1913-14, 16, 133

— in blood (KINGSBURY)

1915, 21, 289

— — tissues (KINGSBURY)

1915, 21, 289

— — urine (STEENBOCK)

1912, 11, 201

(FOLIN and FLANDERS)

1912, 11, xxvii, 257

(VAN SLYKE)

1913-14, 16, 133

Diastase accelerator (ROCKWOOD)

1916, 24, xxix

Diet, influence of, on synthesis of (RINGER)

1911-12, 10, 327

Excretion in monkey (HUNTER and GIVENS)

1914, 17, 55

Hippuric acid—continued:

Formation and elimination from animal body (RAIZISS, RAIZISS, and RINGER)

1914, 17, 527

Glyoxylic acid from, on oxidation with hydrogen peroxide (DAKIN)

1905-06, 1, 272

Maximum production (RINGER)

1911-12, 10, 327

Molds, hydrolysis by (DOX)

1909, 6, 465

Output, maximum (EPSTEIN and BOOKMAN)

1912-13, 13, 117

Oxidation (DAKIN)

1905-06, 1, 272

Phosphorus poisoning, influence on (EPSTEIN and BOOKMAN)

1912-13, 13, 122

Sulfuric acid, reaction with (ERDMANN)

1910-11, 8, 54

Synthesis, animal organism (LEWIS)

1914, 17, 503;

1914, 18, 225

(RAIZISS and DUBIN)

1915, 21, 331

(LEWIS and KARR)

1916, 25, 13

—, experimental tartrate nephritis (KINGSBURY and BELL)

1915, 20, 73, xxxii

—, glycocoll-free diet (LEWIS)

1914, 17, 503

—, nephrectomized dogs (KINGSBURY and BELL)

1915, 21, 297

Hippuric acid—continued:

Synthesis, protein diet
(RAIZISS and DUBIN)

1915, 21, 331

Uric acid determination in
urine, effect on (LEWIS
and KARR)

1916, 25, 14

— — excretion, effect on
(LEWIS and KARR)

1916, 25, 19

Urine, alkaline decomposi-
tion in (RAIZISS and
DUBIN)

1915, 21, 334

Hirudin:

Immunization against anti-
coagulating effect (VERA
and LOEB)

1914, 17, xxv;

1914, 19, 305

Prothrombin, compound
with (VERA and LOEB)

1914, 19, 320

Histidine:

Casein content (VAN
SLYKE)

1913-14, 16, 531

Catabolism (DAKIN and
WAKEMAN)

1911-12, 10, 499

Edestin content (VAN
SLYKE)

1911-12, 10, 46

Fibrin content (VAN
SLYKE)

1911-12, 10, 50

— heteroalbumose content
(LEVENE, VAN SLYKE,
and BIRCHARD)

1910-11, 8, 280;

1911-12, 10, 69

— protoalbumose content
(LEVENE, VAN SLYKE,
and BIRCHARD)

1911-12, 10, 68

Histidine—continued:

Gelatin content (VAN
SLYKE)

1911-12, 10, 49

Gliadin content (VAN
SLYKE)

1911-12, 10, 45

(OSBORNE, VAN SLYKE,
LEAVENWORTH, and VIN-
OGRADE)

1915, 22, 261

Glomerella, presence in
(REED)

1914, 19, 260

Growth, influence on (Os-
BORNE and MENDEL)

1914, 18, 11

Hair content (VAN SLYKE)

1911-12, 18, 47

Hemocyanin content (VAN
SLYKE)

1911-12, 10, 51

Hemoglobin content (VAN
SLYKE)

1911-12, 10, 53

Kidney content (WAKE-
MAN)

1908, 4, 123

Legumelin content (Os-
BORNE and HEYL)

1908-09, 5, 198

Legumin content (Os-
BORNE and CLAPP)

1907, 3, 225

Liver content (WAKEMAN)

1908, 4, 123

— — after chloroform
necrosis (WELLS)

1908-09, 5, 139

Metabolism of (DAKIN)

1913, 14, 328

Muscle content (WAKE-
MAN)

1908, 4, 123

Nitrous acid, reaction with
(VAN SLYKE)

1911, 9, 192

Histidine—continued:

Placenta content (KOELKER and SLEMONS)

1911, 9, 486

Proteins, determination in (VAN SLYKE)

1911-12, 10, 29;

1916, 23, 411

Rice kernel protein content (OSBORNE, VAN SLYKE, LEAVENWORTH, and VINOGRAD)

1915, 22, 275

Soils, presence in (SCHREINER and SHOREY)

1910-11, 8, 381

Thyreoglobulin, presence in (KOCH)

1911, 9, 121

Tissue, animal, determination in (WAKEMAN)

1908, 4, 119

Tumors, malignant, content (KOCHER)

1915, 22, 360

Vicilin content (OSBORNE and HEYL)

1908-09, 5, 188

Vitellin content (LEVENE and ALSBERG)

1906-07, 2, 132

Hog cholera:

Urea nitrogen of (KENDALL and WALKER)

1913, 15, 281

Homogentisic acid:

Tyrosine, rôle in metabolism of (DAKIN)

1910-11, 8, 11

Urine content in alcaptonuria (RAVOLD and WARREN)

1909-10, 7, 478

Hordein:

Heat of combustion (BENEDICT and OSBORNE)

1907, 3, 132

Hordein—continued:

Nutrition and (OSBORNE and MENDEL)

1912, 12, 484

Hordeum sativum:

Phytic acid from (HART and TOTTINGHAM)

1909, 6, 437

Horse gram:

Urease content (MATEER and MARSHALL)

1916, 25, 298

Humin:

Tryptophane, formation from (OSBORNE, VAN SLYKE, LEAVENWORTH, and VINOGRAD)

1915, 22, 269

(VAN SLYKE)

1915, 22, 285

Hydantoic acid:

Ethyl ester, metabolism of (LEWIS)

1912-13, 13, 347

Hydantoin:

(BRAUTLECHT)

1911-12, 10, 139

(WHEELER, HOFFMAN, and JOHNSON)

1911-12, 10, 147

(JOHNSON)

1912, 11, 97

(JOHNSON and BRAUTLECHT)

1912, 12, 175

(JOHNSON and O'BRIEN)

1912, 12, 205

Derivatives, metabolism of (LEWIS)

1912-13, 13, 347;

1913, 14, 245;

1915, 23, 281

—, phenol reagent, reaction with (LEWIS and NICOLET)

1913-14, 16, 369

Hydantoin—continued:

Derivatives, uric acid reagent, reaction with (LEWIS and NICOLET)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

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Hexamethylenetetraminium salt (JACOBS and HEIDELBERGER)

1915, 20, 680

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Hexamethylenetetramin-
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FORMULA INDEX.

The following index of *new* compounds of known empirical formula is arranged according to Richter's system (*Lexikon der Kohlenstoff Verbindungen*).

The elements are given in the order C, H, O, N, Cl, Br, I, F, S, P, and the remainder alphabetically.

The compounds are arranged in groups according to the number of carbon atoms (thus, C₁ group, C₂ group, etc.); according to the number of other elements besides carbon contained in the molecule (thus, C₅ IV indicates that the molecule contains five carbon atoms and four other elements); according to the nature of the elements present in the molecule (given in the above order); and according to the number of atoms of each single element (except carbon) present in the molecule.

Salts are placed with the compounds from which they are derived. The chlorides, bromides, iodides, and cyanides of quaternary ammonium bases, however, are registered as group substances.

C₂ Group

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- 2-Amino-6-oxypyrimidine (isocytosine), hydrochloride, sulfate (WHEELER) 1907, 3, 293
 —, picrolonate (WHEELER and JAMIESON) 1908, 4, 114
- $C_4H_5O_2N_3$ 2,5-Dioxy-6-aminopyrimidine (5-oxycytosine), picrate (JOHNSON and McCOLLUM) 1905-06, 1, 446
- $C_4H_5O_2N_2$ Methylhydantoin (BAUMANN) 1915, 21, 565
- $C_4H_6N_2S_2$ Dithiopiperazine (JOHNSON and BURNHAM) 1911, 9, 455
- $C_4H_7O_4N$ *dl*-Aspartic acid, picrolonate (LEVENE and VAN SLYKE) 1912, 12, 131
- $C_4H_8O_3N_2$ Methylureidoacetic acid (BAUMANN) 1915, 21, 565
- $C_4H_9N_3S_2$ Thioglycylglycinethioamide (JOHNSON and BURNHAM) 1911, 9, 457

 C_4 IV

- $C_4H_3O_2N_2I$ 2,6-Dioxy-5-iodopyrimidine (5-iodouracil) (JOHNSON and JOHNS) 1905-06, 1, 310
- $C_4H_4ON_3I$ 5-Iodocytosine, picrate, acetic acid salt (JOHNSON and JOHNS) 1905-06, 1, 311
- $C_4H_4O_3N_2Br_2$ Dibromooxyhydrouracil (WHEELER and JOHNSON) 1907, 3, 187
- $C_4H_5ON_2S$ 2-Thio-4-methylhydantoin (JOHNSON) 1912, 11, 100
- C_4H_8ONCl Chloroacetdimethylamide (JACOBS and HEIDELBERGER) 1915, 21, 148
 Chloroacetylthylamide (JACOBS and HEIDELBERGER) 1915, 21, 149
- $C_4H_8O_2NCl$ Chloroacetylaminioethanol (JACOBS and HEIDELBERGER) 1915, 21, 407

 C_5 Group C_5 II

- $C_5H_{14}N_4$ Base from urine, picrolonate (KOCH) 1913, 15, 53

 C_5 III

- $C_5H_4ON_4$ 2-Oxypurine, hydrochloride, nitrate, picrate (JOHNS) 1912, 11, 69
- $C_5H_4O_2N_4$ 2,6-Dioxypurine (xanthine) (JOHNS and HOGAN) 1913, 14, 304

$C_5H_5O_4N_3$	2,6-Dioxy-3-methyl-5-nitropyrimidine (JOHNS)	1912, 11, 76; 1913, 14, 4
	(JOHNS and BAUMANN)	1913-14, 16, 139
$C_5H_6O_2N_2$	Thymine, potassium salt (JOHNSON and CLAPP)	1908-09, 5, 59
	—, sodium, lead, mercury, and potassium salts (MYERS)	1909-10, 7, 251
$C_5H_6O_2N_4$	Formyl-2-oxy-5,6-diaminopyrimidine (JOHNS)	1912, 11, 68
$C_5H_6O_3N_4$	2-Oxy-3-methyl-5-nitro-6-aminopurine (JOHNS)	1912, 11, 75
	2-Oxy-5-nitro-6-methylaminopyrimidine (JOHNS)	1911, 9, 164
$C_5H_7O_2N_5$	4-Imidopseudouric acid (LEVENE and SENIOR)	1916, 25, 618
$C_5H_7O_3N$	2-Oxy-3-methyl-6-aminopyrimidine (3-methylcytosine), picrate (JOHNSON and CLAPP)	1908-09, 5, 62
	2-Oxy-6-methylaminopyrimidine (JOHNS)	1911, 9, 163
$C_5H_7O_3N_3$	α -Oxynitrohydrothymine (JOHNSON)	1908, 4, 410
	β -Oxynitrohydrothymine (JOHNSON)	1908, 4, 414
$C_5H_8ON_4$	2-Oxy-5-amino-6-methylaminopyrimidine (JOHNS)	1911, 9, 165
	2-Oxy-3-methyl-5,6-diaminopyrimidine (JOHNS)	1912, 11, 77
$C_5H_9O_4N$	<i>d</i> -Glutaminic acid, pierolonate (LEVENE and VAN SLYKE)	1912, 12, 132
	<i>dl</i> -Glutaminic acid, pierolonate (LEVENE and VAN SLYKE)	1912, 12, 132
$C_5H_{11}O_2N$	<i>d</i> -Valine, pierolonate (LEVENE and VAN SLYKE)	1912, 12, 136
	<i>dl</i> -Valine, pierolonate (LEVENE and VAN SLYKE)	1912, 12, 137
$C_5H_{11}O_4N$	<i>d</i> -Lyxosimine (LEVENE and LA FORGE)	1915, 22, 333
	Ribosimine (LEVENE and LA FORGE)	1915, 20, 440

C₅ IV

$C_5H_7ON_4S$	2-Oxy-8-thiopurine (JOHNS)	1915, 21, 321
$C_5H_7ON_4S_2$	2,8-Dithio-6-oxypurine (JOHNS and HOGAN)	1913, 14, 305
$C_5H_7O_2N_4S$	2-Thio-6,8-dioxypurine (JOHNS and HOGAN)	1913, 14, 302

$C_5H_5O_2N_2Br$	3-Methyl-5-bromouracil (JOHNSON and CLAPP)	1908-09, 5, 64
$C_5H_6O_2N_4S$	2-Methylmercapto-4-amino-5-nitroso-6-oxypyrimidine (JOHNS and BAUMANN)	1913, 14, 384
$C_5H_8ON_4S$	2-Methylmercapto-4,5-diamino-6-oxypyrimidine (JOHNS and BAUMANN)	1913, 14, 385
$C_5H_8O_2N_2I_2$	Methylene bisiodoacetamide (JACOBS and HEIDELBERGER)	1915, 21, 150
$C_5H_{10}O_2NCl$	Chloroacetylaminoisopropanol (JACOBS and HEIDELBERGER)	1915, 21, 424

C₆ Group**C₆ II**

$C_6H_5O_7$	α, α_1 -Anhydro-idosaccharic acid (LEVENE and LA FORGE)	1915, 21, 357
	α, α_1 -Anhydromucic acid (LEVENE and LA FORGE)	1915, 22, 334
	α, α_1 - <i>l</i> -Anhydrosaccharic acid (LEVENE and LA FORGE)	1915, 21, 358
	Chondrosic acid (LEVENE and LA FORGE)	1914, 18, 128; 1915, 20, 438
	Epichondrosic acid (LEVENE and LA FORGE)	1915, 20, 439
	<i>l</i> -Epi-isosaccharic acid (LEVENE and LA FORGE)	1915, 20, 442; 1915, 21, 358
$C_6H_{10}O_5$	Mycodextran (DOX and NEIDIG)	1914, 18, 172
	Mycogalaetan (DOX and NEIDIG)	1914, 19, 235
$C_6H_{10}O_5$	Acid from oxidation of chondrosin (LEVENE and LA FORGE)	1913, 15, 78

C₆ III

$C_6H_6ON_4$	2-Oxy-1-methylpurine, picrate (JOHNS)	1912, 11, 78
	2-Oxy-8-methylpurine, picrate (JOHNS)	1912, 11, 71
	2-Oxy-9-methylpurine (JOHNS)	1911, 9, 166
$C_6H_6O_2N_2$	"Urocanic acid" (β -imidazole-4(5)-acrylic acid), picrate, and picrolonate (HUNTER)	1912, 11, 537
$C_6H_6O_2N_4$	2,8-Dioxy-1-methylpurine (JOHNS)	1912, 11, 398
	2,6-Dioxy-9-methylpurine (JOHNS)	1911, 9, 167

- $C_6H_6O_4N_2$ Thymine-4-carboxylic acid (JOHNSON) 1907, 3, 304
 —, lead, barium, and potassium salts (JOHNSON) 1907, 3, 304
- $C_6H_7ON_3$ Acetyl-6-aminopyrimidine (WHEELER) 1907, 3, 291
- $C_6H_7O_4N_3$ 2,6-Dioxy-3,4-dimethyl-5-nitropyrimidine (JOHNS and BAUMANN) 1913-14, 16, 139
- $C_6H_8O_2N_2$ 1,5-Dimethyl-2,6-dioxypyrimidine (1-methylthymine) (JOHNSON and CLAPP) 1908-09, 5, 56
 3,5-Dimethyl-2,6-dioxypyrimidine (3-methylthymine) (JOHNSON and CLAPP) 1908-09, 5, 56
 1,3-Dimethyluracil (JOHNSON and CLAPP) 1908-09, 5, 61
- 2,6-Dioxy-5-ethylpyrimidine (5-ethyluracil) (JOHNSON and MENGE) 1906-07, 2, 111
- $C_6H_8O_2N_4$ Acetyl-2-oxy-5,6-diaminopyrimidine (JOHNS) 1912, 11, 71
 Formyl-2-oxy-3-methyl-5,6-diaminopyrimidine (JOHNS) 1912, 11, 77
- $C_6H_8O_3N_2$ Acetylformamide acrylic acid (WHEELER) 1907, 3, 291
 2,6-Dioxy-5-ethoxypyrimidine (JOHNSON and McCOLLUM) 1905-06, 1, 445
 2,6-Dioxy-4-hydroxymethyl-5-methylpyrimidine (JOHNSON and CHERNOFF) 1913, 14, 319
- $C_6H_8O_3N_4$ 2-Oxy-3,4-dimethyl-5-nitro-6-aminopyrimidine (JOHNS and BAUMANN) 1913-14, 16, 137
 2-Oxy-3-methyl-5-nitro-6-methylaminopyrimidine (JOHNS) 1913, 14, 3; 1914, 17, 4
 2-Oxy-4-methyl-5-nitro-6-methylaminopyrimidine (JOHNS) 1912, 11, 396
 2-Oxy-5-nitro-6-ethylaminopyrimidine (JOHNS and HENDRIX) 1914, 19, 28
- $C_6H_9ON_3$ 2-Oxy-3,5-dimethyl-6-aminopyrimidine (JOHNSON and CLAPP) 1908-09, 5, 65
 2-Oxy-6-ethylaminopyrimidine (JOHNS and HENDRIX) 1914, 19, 27
 2-Oxy-5-ethyl-6-aminopyrimidine (5-ethyleytosine) (JOHNSON and MENGE) 1906-07, 2, 112
 —, chloroplatinate, hydrobromide, hydrochloride, nitrate, picrate (JOHNSON and MENGE) 1906-07, 2, 112
 2-Oxy-4-methyl-6-methylaminopyrimidine (JOHNS) 1912, 11, 395

- C₆H₉O₂N₃** 2-Amino-5-ethoxy-6-oxypyrimidine (JOHNSON and McCOLLUM) 1905-06, 1, 448
 α -Cyanobutyrylurea (JOHNSON and JOHNS) 1905-06, 1, 317
 2,4-Dioxy-5-ethyl-6-aminopyrimidine (JOHNSON and JOHNS) 1905-06, 1, 317
 2-Oxy-5-ethoxy-6-aminopyrimidine (5-ethoxyeytosine) (JOHNSON and McCOLLUM) 1905-06, 1, 445
- C₆H₉O₅N₃** 1-Methyl-5-nitro-4-oxyhydrothymine (JOHNSON and CLAPP) 1908-09, 5, 58
 3-Methyl-5-nitro-4-oxyhydrothymine (JOHNSON and CLAPP) 1908-09, 5, 58
- C₆H₁₀ON₄** 2-Oxy-5-amino-6-ethylaminopyrimidine (JOHNS and HENDRIX) 1914, 19, 28
 2-Oxy-3,4-dimethyl-5,6-diaminopyrimidine (JOHNS and BAUMANN) 1913-14, 16, 140
 2-Oxy-3-methyl-5-amino-6-methylaminopyrimidine (JOHNS) 1913, 14, 4
 2-Oxy-4-methyl-5-amino-6-methylaminopyrimidine (JOHNS) 1912, 11, 397
- C₆H₁₃O₂N** *d*-Isoleucine, picrolonate (LEVENE and VAN SLYKE) 1912, 12, 133
d-Leucine, picrolonate (LEVENE and VAN SLYKE) 1912, 12, 134
l-Leucine, picrolonate (LEVENE and VAN SLYKE) 1912, 12, 133
dl-Leucine, picrolonate (LEVENE and VAN SLYKE) 1912, 12, 134
- C₆H₁₃O₃N** Chondrosaminic acid, reduction product (LEVENE and LA FORGE) 1915, 20, 437
- C₆H₁₃O₅N** Chondrosamine (LEVENE and LA FORGE) 1913, 15, 158; 1914, 18, 126, 240
- C₆H₁₃O₆N** Chondrosaminic acid (LEVENE and LA FORGE) 1915, 20, 436
 Hexosaminic acid from ribose (LEVENE and LA FORGE) 1915, 20, 441
d-Lyxohexosaminic acid (LEVENE and LA FORGE) 1915, 22, 333
 Xylohexosaminic acid (LEVENE and LA FORGE) 1915, 21, 354
- C₆HO₉P₁** Inosite monophosphate, barium salt (ANDERSON) 1914, 18, 444
- C₆H₁₃O₁₅P₃** Inosite triphosphate, barium salts, strychnine salt (ANDERSON) 1915, 20, 470
- C₆H₁₃O₁₅P₄** Inosite dipyrophosphoric acid ester, barium salt (ANDERSON) 1912, 12, 109

- $C_6H_{16}O_{18}P_4$ Inosite tetraphosphoric acid ester, barium salt
(ANDERSON) 1912, 11, 484
- $C_6H_{24}O_{27}P_6$ Phytic acid (ANDERSON)
1912, 11, 478; 1912, 12, 103;
1912-13, 13, 316; 1914, 17, 144,
154, 166, 175; 1915, 20, 496
- , tribarium, pentabarium, pentabarium ammonium, pentamagnesium ammonium, tetracupric dicalcium salts (ANDERSON) 1912, 11, 478
- , calcium magnesium potassium, pentacalcium, pentamagnesium, hexacopper, heptasilver, octasilver salts (ANDERSON) 1912, 12, 103

C₆ IV

- $C_6H_6ON_4S$ 2-Oxy-8-methylmercaptapurine (JOHNS) 1915, 21, 322
- $C_6H_6ON_4S_2$ 2-Methylmercapto-6-oxy-8-thiopurine (JOHNS and BAUMANN) 1913, 15, 521
- $C_6H_6O_2N_4S$ 2-Methylmercapto-6,8-dioxypurine (JOHNS and BAUMANN) 1913, 14, 386
- $C_6H_7ON_5S$ 2-Methylmercapto-6-oxy-8-aminopurine (JOHNS and BAUMANN) 1913, 14, 387
- 2-Oxy-8-methylaminopurine (JOHNS) 1915, 21, 322
- $C_6H_7O_2N_2Cl$ 2,6-Dioxy-4-chloromethyl-5-methylpyrimidine (JOHNSON and CHERNOFF) 1913, 14, 318
- $C_6H_7O_2N_2Br$ 1,3-Dimethyl-5-bromouracil (JOHNSON and CLAPP) 1908-09, 5, 62
- $C_6H_7O_3N_2Br$ Oxybromohydrothymine-4-carboxylic acid (JOHNSON) 1907, 3, 306
- $C_6H_8ON_2S$ 2-Thio-3,5-dimethyl-6-oxypyrimidine (JOHNSON and CLAPP) 1908-09, 5, 56
- $C_6H_8O_2N_2S$ 2-Thio-3-acetyl-4-methylhydantoin (JOHNSON) 1912, 11, 99
- $C_6H_8O_2N_4S$ 1-Methyl-2-methylmercapto-4-amino-5-nitroso-6-oxypyrimidine (JOHNS and HENDRIX) 1915, 20, 158
- $C_6H_8O_3N_2Br_2$ 1,3-Dimethyldibromooxyhydrouracil (JOHNSON and CLAPP) 1908-09, 5, 61
- $C_6H_8N_3SI$ 2-Ethylmercapto-5-iodo-6-aminopyrimidine (JOHNSON and JOHNS) 1905-06, 1, 313
- $C_6H_8ON_3S$ 2-Methylmercapto-4-amino-6-methoxypyrimidine (JOHNS and HENDRIX) 1915, 20, 156
- 1-Methyl-2-methylmercapto-4-amino-6-oxypyrimidine (JOHNS and HENDRIX) 1915, 20, 157
- $C_6H_8O_3N_2Br$ 1-Methyl-5-bromo-4-oxyhydrothymine (JOHNS and CLAPP) 1908-09, 5, 57

$C_6H_{10}ON_4S$	1-Methyl-2-methylmercapto-4,5-diamino-6-oxypyrimidine (JOHNS and HENDRIX)	1915, 20, 159
$C_6H_{10}O_2N_2Cl$	Ethylencbischloroacetamide (JACOBS and HEIDELBERGER)	1915, 21, 151
$C_6H_{12}ONCl$	Chloroacetdiethylamide (JACOBS and HEIDELBERGER)	1915, 21, 149
$C_6H_{12}O_2NCl$	β -Chloroacetyl-amino- γ -butanol (JACOBS and HEIDELBERGER)	1915, 21, 428
	δ -Chloroacetyl-amino- <i>n</i> -butanol (JACOBS and HEIDELBERGER)	1915, 21, 427
	Chloroacetyl-ethylaminoethanol (JACOBS and HEIDELBERGER)	1915, 21, 417
	Chloroacetyl-aminoethyl ethyl ether (JACOBS and HEIDELBERGER)	1915, 21, 415
$C_6H_{12}O_5NCl$	Xylohexosaminic acid lactone hydrochloride (LE- VENE and LA FORGE)	1915, 21, 355
$C_6H_{16}ONCl$	α -Methylcholine chloride, chloroplatinate, chloroaurate (MENGE)	1911-12, 10, 400
$C_6H_{18}O_{24}P_6$	Inosite hexaphosphate, tribarium and pentabarium salts (ANDERSON)	1914, 17, 147, 160, 167, 178

C₆ V

$C_6H_6N_2SClI$	2-Ethylmercapto-5-iodo-6-chloropyrimidine (JOHN- SON and JOHNS)	1905-06, 1, 313
$C_6H_7ON_2SI$	2-Ethylmercapto-5-iodo-6-oxypyrimidine (JOHN- SON and JOHNS)	1905-06, 1, 310

C₇ GroupC₇ II

$C_7H_{16}O_7$	<i>d</i> - β -Galaheptite (PEIRCE)	1915, 23, 335
	<i>d</i> - β -Mannoheptite (PEIRCE)	1915, 23, 334

C₇ III

C_7H_6ClBr	<i>o</i> -Bromobenzyl chloride (JACOBS and HEIDELBERGER)	1915, 20, 665
$C_7H_8ON_4$	2-Oxy-6,8-dimethylpurine (JOHNS)	1913, 14, 6
	2-Oxy-6,9-dimethylpurine, picrate (JOHNS)	1912, 12, 94
	2-Oxy-8,9-dimethylpurine, picrate (JOHNS)	1912, 12, 95
$C_7H_8O_2N_4$	2,8-Dioxy-1,6-dimethylpurine (JOHNS and BAUMANN)	1913-14, 16, 141
	2,8-Dioxy-1,7-dimethylpurine (JOHNS)	1914, 17, 6

$C_7H_8O_2N_4$ —*continued*:

- 2,8-Dioxy-1,9-dimethylpurine (JOHNS)
1913, 14, 5; 1914, 17, 7
- 2,8-Dioxy-6,9-dimethylpurine (JOHNS)
1912, 11, 397
- 2,8-Dioxy-9-ethylpurine (JOHNS and HENDRIX)
1914, 19, 29
- $C_7H_{10}O_2N_2$ 1,3-Dimethylthymine (JOHNSON and CLAPP)
1908-09, 5, 59
- $C_7H_{10}O_3N_4$ 2-Oxy-4-methyl-5-nitro-6-ethylaminopyrimidine
(JOHNS and BAUMANN) 1913, 15, 122
- $C_7H_{11}ON_3$ 2-Oxy-4-methyl-6-ethylaminopyrimidine and hydro-
chloride (JOHNS and BAUMANN) 1913, 15, 121
- $C_7H_{11}N_3S$ 2-Ethylmercapto-6-methylaminopyrimidine (JOHNS)
1911, 9, 163
- $C_7H_{12}ON_4$ 2-Oxy-4-methyl-5-amino-6-ethylaminopyrimidine
(JOHNS and BAUMANN) 1913, 15, 123

 C_7 IV

- $C_7H_6O_3N_4S$ Hypoxanthine-2-thioglycollic acid (JOHNS and Ho-
GAN) 1913, 14, 304
- $C_7H_6O_4N_4S$ 6,8-Dioxypurine-2-thioglycollic acid (JOHNS and
HOGAN) 1913, 14, 302
- $C_7H_8ON_4S$ 2-Oxy-6,9-dimethyl-8-thiopurine (JOHNS)
1915, 21, 323
- $C_7H_8O_2N_4S$ 1-Methyl-2-methylmercapto-6,8-dioxypurine
(JOHNS and HENDRIX) 1915, 20, 159
- $C_7H_8O_3N_2S$ 2-Methylmercapto-4-carboxyl-5-methyl-6-oxypyri-
midine (JOHNSON) 1907, 3, 302
- $C_7H_{10}O_2N_2S$ 2-Methylmercapto-5-ethoxy-6-oxypyrimidine
(JOHNSON and McCOLLUM) 1905-06, 1, 447
- $C_7H_{11}O_4N_2Br$ 1,3-Dimethyl-5-bromo-4-oxhydrothymine
(JOHNSON and CLAPP) 1908-09, 5, 60
- $C_7H_{12}ONCl$ Chloroacetyl piperidide (JACOBS and HEIDELBERGER)
1915, 21, 150
- $C_7H_{14}O_2NCl$ γ -Chloroacetyl amino- β -methyl- β -butanol (JACOBS
and HEIDELBERGER) 1915, 21, 431
- Chloroacetylaminomethylmethylethylcarbinol
(α -chloroacetyl amino- β -methyl- β -butanol) (JACOBS
and HEIDELBERGER) 1915, 21, 430
- γ -Chloroacetyl amino- β -pentanol (JACOBS and
HEIDELBERGER) 1915, 21, 429
- $C_7H_{17}O_2N_2I$ Iodoacetylaminooethanol trimethylamine salt (JA-
COBS and HEIDELBERGER) 1915, 21, 408
- $C_7H_{15}ONCl$ β -Dimethylcholine chloride, chloroplatinate
(MENGE) 1911-12, 10, 404

C₈ Group**C₈ II**

C₈H₁₆O₈ *d*- α,α -Mannooctaric acid double lactone (PEIRCE)
1915, 23, 337

C₈H₁₇N Conine, picrolonate (WARREN and WEISS)
1907, 3, 333

C₈ III

C₈H₇O₄N₃ Glyoxylic acid *p*-nitrophenylhydrazone (DAKIN)
1908, 4, 237

C₈H₅OBr₂ *p*-Bromophenoxyethyl bromide (JACOBS and HEIDELBERGER)
1915, 21, 444

C₈H₉O₄N 2-Methoxy-5-nitrobenzyl alcohol (JACOBS and HEIDELBERGER)
1915, 20, 675

C₈H₁₀ON₄ 2-Oxy-6-methyl-9-ethylpurine (JOHNS and BAUMANN)
1913, 15, 517

2-Oxy-6,8,9-trimethylpurine (JOHNS)
1912, 12, 93

C₈H₁₀O₂N₄ 2,8-Dioxy-6-methyl-9-ethylpurine (JOHNS and BAUMANN)
1913, 15, 124

2,8-Dioxy-1,7,9-trimethylpurine (JOHNS)
1914, 17, 4

C₈H₁₀O₄N₂ 2,6-Dioxy-4-hydroxymethyl-5-methylpyrimidine acetate (JOHNSON and CHERNOFF)
1913, 14, 318

Thymine-4-ethyl carboxylate (JOHNSON)
1907, 3, 306

C₈H₁₂O₂N₄ Acetyl-2-oxy-4-methyl-5-amino-6-methylaminopyrimidine (JOHNS)
1912, 12, 92

C₈H₁₂O₃N₂ 2,6-Dioxy-4-ethoxymethyl-5-methylpyrimidine (JOHNSON and CHERNOFF)
1913, 14, 317

C₈H₁₃N₃S 2-Ethylmercapto-5-ethyl-6-aminopyrimidine (JOHNSON and MENGE)
1906-07, 2, 111

2-Ethylmercapto-6-ethylaminopyrimidine (JOHNS and HENDRIX)
1914, 19, 27

2-Ethylmercapto-4-methyl-6-methylaminopyrimidine (JOHNS)
1912, 11, 395

C₈H₂₂O₂P₆ Dimethylphytate (ANDERSON)
1914, 17, 188

C₈ IV

C₈H₆OC₃Br 2,4,6-Trichlorophenoxyethyl bromide (JACOBS and HEIDELBERGER)
1915, 21, 442

C₈H₆O₄NBr *o*-Nitrophenyl bromoacetate (JACOBS and HEIDELBERGER)
1915, 21, 469

C₈H₇O₃N₂Cl *p*-Nitrochloroacetylaniline (JACOBS and HEIDELBERGER)
1915, 21, 112

- $C_8H_5O_2NCl$ *m*-Chloroacetylaminophenol (JACOBS and HEIDELBERGER) 1915, 21, 132
 $C_8H_5O_3NCl$ 2-Methoxy-5-nitrobenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 675
 3-Nitro-4-methoxybenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 676
 $C_8H_{10}ONBr$ *o*-Aminophenoxyethyl bromide and hydrobromide (JACOBS and HEIDELBERGER) 1915, 21, 447
 $C_8H_{10}ON_4S$ 2-Oxy-6-methyl-8-thio-9-ethylpurine (JOHNS and BAUMANN) 1913, 15, 519
 $C_8H_{11}N_2SCl$ 2-Ethylmercapto-5-ethyl-6-chloropyrimidine (JOHNSON and MENGE) 1906-07, 2, 110
 $C_8H_{12}ON_2S$ 1-Ethylmercapto-1,5-dimethyl-6-oxypyrimidine (JOHNSON and CLAPP) 1908-09, 5, 54
 2-Ethylmercapto-3,5-dimethyl-6-oxypyrimidine (JOHNSON and CLAPP) 1908-09, 5, 55
 2-Ethylmercapto-5-ethyl-6-oxypyrimidine (JOHNSON and MENGE) 1906-07, 2, 109
 $C_8H_{12}O_2N_2S$ 2-Ethylmercapto-5-ethoxy-6-oxypyrimidine (JOHNSON and McCOLLUM) 1905-06, 1, 441
 2-Thio-4-ethoxymethyl-5-methyl-6-oxypyrimidine (JOHNSON and CHERNOFF) 1913, 14, 316
 $C_8H_{13}ON_3S$ 2-Ethylmercapto-5-ethoxy-6-aminopyrimidine (JOHNSON and McCOLLUM) 1905-06, 1, 444
 $C_8H_{14}O_2N_2S$ α -Ethyl- β -pseudoethylthioacrylic acid (JOHNSON and MENGE) 1906-07, 2, 110
 $C_8H_{16}ON_6S$ 2-Oxy-4-methyl-5-amino-6-ethylaminopyrimidine thiourea addition product (JOHNS and BAUMANN) 1913, 15, 519
 $C_8H_{17}ON_4I$ Oxyethylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 465
 $C_8H_{15}O_2NCl$ Acetyl- α -methylcholine chloride (acetyl- β -methylethoxytrimethylammonium chloride), chloroplatinate, and chloraurate (MENGE) 1912-13, 13, 98
 $C_8H_{20}ONCl$ β , β -Methylethylcholine chloride, chloroplatinate (MENGE) 1911-12, 10, 405

C₈ V

- $C_8H_5ONClBr_3$ 2,4,6-Tribromochloroacetylaniline (JACOBS and HEIDELBERGER) 1915, 21, 111
 C_8H_7ONCl *m*-Iodochloroacetylaniline (JACOBS and HEIDELBERGER) 1915, 21, 111
 $C_8H_{11}ON_2SCl$ 2-Ethylmercapto-5-ethoxy-6-chloropyrimidine (JOHNSON and McCOLLUM) 1905-06, 1, 443

C₉ GroupC₉ II

C ₉ H ₈ O ₂	Benzylglyoxal (DAKIN and DUDLEY)	1914, 18, 43
C ₉ H ₁₂ O ₃	2,4-Dimethoxybenzyl alcohol (JACOBS and HEIDELBERGER)	1915, 20, 678
C ₉ H ₁₆ O ₄	Ethyl methylethoxyacetoacetate (JOHNSON and CHERNOFF)	1913, 14, 315

C₉ III

C ₉ H ₆ O ₂ Br ₄	Tribromo- <i>p</i> -cresyl bromoacetate (JACOBS and HEIDELBERGER)	1915, 21, 469
C ₉ H ₇ OBr ₅	Tetrabromo- <i>p</i> -methylphenoxyethyl bromide (JACOBS and HEIDELBERGER)	1915, 21, 445
C ₉ H ₈ OBr ₄	Tribromo- <i>p</i> -methylphenoxyethyl bromide (tribromo- <i>p</i> -cresoxyethyl bromide) (JACOBS and HEIDELBERGER)	1915, 21, 444
C ₉ H ₈ OS	1-Phenyl-2-thiohydantoin (BRAUTLECHT)	1911-12, 10, 143
C ₉ H ₉ OI	<i>p</i> -Methylphenacyl iodide (JACOBS and HEIDELBERGER)	1915, 21, 456
	<i>p</i> -Tolyl iodomethyl ketone (JACOBS and HEIDELBERGER)	1915, 21, 456
C ₉ H ₁₁ OBr	<i>m</i> -Methylphenoxyethyl bromide (JACOBS and HEIDELBERGER)	1915, 21, 440
C ₉ H ₁₁ O ₂ N	Phenylalanine (JOHNSON and O'BRIEN)	1912, 12, 212
	—, picrolonate (LEVENE and VAN SLYKE)	1912, 12, 136
	<i>l</i> -Phenylalanine, picrolonate (LEVENE and VAN SLYKE)	1912, 12, 135
C ₉ H ₁₁ O ₂ N ₃	Propionic aldehyde <i>p</i> -nitrophenylhydrazine (DAKIN)	1908, 4, 236
C ₉ H ₁₁ O ₂ Cl	2,3-Dimethoxybenzyl chloride (JACOBS and HEIDELBERGER)	1915, 20, 677
C ₉ H ₁₁ O ₃ N	Tyrosine, picrolonate (LEVENE and VAN SLYKE)	1912, 12, 136
C ₉ H ₁₂ ON ₄	2-Oxy-6,8-dimethyl-9-ethylpurine (JOHNS and BAUMANN)	1913, 15, 518
C ₉ H ₁₃ ON	Aminoethyl <i>o</i> -tolyl ether (<i>o</i> -methylphenoxyethylamine) (JACOBS and HEIDELBERGER)	1915, 21, 416
	α - <i>p</i> -Tolyl- α -oxyethylamine (JACOBS and HEIDELBERGER)	1915, 21, 432
C ₉ H ₁₅ N ₃ S	2-Ethylmercapto-4-methyl-6-ethylaminopyrimidine (JOHNS and BAUMANN)	1913, 15, 121

C₉ IV

- $C_9H_5O_4NCl$ 3-Nitro-4-acetoxybenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 672
 3-Nitro-6-acetoxybenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 673
- $C_9H_5O_4NBr$ Bromoethyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 450
- $C_9H_5O_4NI$ 3-Nitro-4-acetoxybenzyl iodide (JACOBS and HEIDELBERGER) 1915, 20, 672
- $C_9H_5O_5N_4S_2$ 6-Oxypurine-2,8-dithioglycollic acid (JOHNS and HOGAN) 1913, 14, 306
- $C_9H_7O_3NCl_2$ 3,5-Dichlorotyrosine (WHEELER, HOFFMAN, and JOHNSON) 1911-12, 10, 153
- $C_9H_{11}ONCl$ Chloroacetylbenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 686
 Chloroacetyl-*m*-toluidine (JACOBS and HEIDELBERGER) 1915, 21, 108
- $C_9H_{11}O_2NCl$ *o*-Chloroacetylaminobenzyl alcohol (JACOBS and HEIDELBERGER) 1915, 21, 138
 Chloroacetyl-*o*-anisidine (JACOBS and HEIDELBERGER) 1915, 21, 134
 Chloroacetyl-*p*-anisidine (JACOBS and HEIDELBERGER) 1915, 21, 137
- $C_9H_{11}O_2NBr$ 2-Bromoethoxybenzamide (JACOBS and HEIDELBERGER) 1915, 21, 449
- $C_9H_{11}O_3N_2Hg$ *p*-Methylnitrosoaminophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 519
- $C_9H_{11}O_2NS$ Thiotyrosine and hydrochloride (JOHNSON and BRAUTLECHT) 1912, 12, 194
- $C_9H_{11}O_2NHg$ 3-Methyl-4-aminophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 519
- $C_9H_{12}O_3N_2S$ 2-Methylmercapto-4-carbethoxy-5-methyl-6-oxypyrimidine (JOHNSON) 1907, 3, 302
- $C_9H_{17}O_2N_6Cl$ Chloroacetylurea and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 151
- $C_9H_{15}ON_5Cl$ Chloroacetmethylamide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 148
- $C_9H_{15}ON_5I$ β -Iodopropionamide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 147
- $C_9H_{15}O_2N_5Cl$ Oxymethylchloroacetamide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 406
- $C_9H_{15}N_4ClBr$ γ -(Chloropropyl)hexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 465

- $C_9H_{13}ON_4I$ γ -Oxypropylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 466
- $C_9H_{20}O_2NCl$ Propionyl- α -methylcholine chloride (propionyl- β -methylethoxytrimethylammonium chloride), chloroplatinate, and chloraurate (MENGE) 1912-13, 13, 105

C₉ V

- C_9H_9ONCl 5-Iodochloroacetyl-*o*-toluidine (JACOBS and HEIDELBERGER) 1915, 21, 111

C₁₀ Group**C₁₀ II**

- $C_{10}H_{16}O_3$ *p*-Methylphenylpyruvic acid (WAKEMAN and DAKIN) 1911, 9, 149
- $C_{10}H_{16}O_4$ *p*-Methoxyphenylpyruvic acid (WAKEMAN and DAKIN) 1911, 9, 150
- $C_{10}H_{12}O_4$ Oxyethyl anisate (JACOBS and HEIDELBERGER) 1915, 21, 470
- $C_{10}H_{12}N_2$ Nicotine, picrolonate (WARREN and WEISS) 1907, 3, 333

C₁₀ III

- $C_{10}H_7O_3N$ γ -Hydroxy- β -carboxyquinoline (HOMER) 1914, 17, 514
- $C_{10}H_7ON_3$ 2-Anilino-6-oxypyrimidine (JOHNSON and JOHNS) 1905-06, 1, 314
- $C_{10}H_5O_4N_3$ 4-*p*-Nitrobenzylhydantoin (JOHNSON and BRAUTLECHT) 1912, 12, 188
- $C_{10}H_{10}O_2N_2$ *d*-Benzylhydantoin (DAKIN and DUDLEY) 1914, 17, 35
- l*-Benzylhydantoin (DAKIN and DUDLEY) 1914, 17, 36
- Phenyldihydrouracil (DAKIN) 1910-11, 8, 38
- $C_{10}H_{10}O_3N_2$ Tyrosinehydantoin (JOHNSON and BRAUTLECHT) 1912, 12, 187
- d-p*-Hydroxybenzylhydantoin (DAKIN) 1910-11, 8, 28
- l-p*-Hydroxybenzylhydantoin (DAKIN) 1910-11, 8, 31
- dl-p*-Hydroxybenzylhydantoin (DAKIN) 1910-11, 8, 30

- C₁₀H₁₁OBr** *p*-Ethylphenyl bromomethyl ketone (*p*-ethylphenacyl bromide) (JACOBS and HEIDELBERGER) 1915, 21, 458
- m*-Xylyl bromomethyl ketone (JACOBS and HEIDELBERGER) 1915, 21, 458
- o*-Xylyl bromomethyl ketone (JACOBS and HEIDELBERGER) 1915, 21, 457
- C₁₀H₁₁O₂N₃** 4-*p*-Aminobenzylhydantoin, hydrochloride, and hydriodide (JOHNSON and BRAUTLECHT) 1912, 12, 186
- C₁₀H₁₁O₃Br** Bromoethyl anisate (JACOBS and HEIDELBERGER) 1915, 21, 452
- o*-Carbomethoxyphenoxyethyl bromide (methyl 2-bromoethoxybenzoate) (JACOBS and HEIDELBERGER) 1915, 21, 448
- C₁₀H₁₂O₃N₂** *l*-β-Phenyl-α-uramidopropionic acid and strychnine salt (DAKIN and DUDLEY) 1914, 17, 33
- d*-β-Phenyl-α-uramidopropionic acid (DAKIN and DUDLEY) 1914, 17, 34
- dl*-β-Phenyl-α-uramidopropionic acid (DAKIN) 1909, 6, 241
- Phenyl-β-uramidopropionic acid (DAKIN) 1910-11, 8, 38
- C₁₀H₁₂O₄N₂** Aminoisopropyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 425
- γ-Aminopropyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 421
- Oxyisopropyl *p*-nitrobenzamide (JACOBS and HEIDELBERGER) 1915, 21, 426
- γ-Oxypropyl *p*-nitrobenzamide (JACOBS and HEIDELBERGER) 1915, 21, 422
- C₁₀H₁₃O₂N** *p*-Methylphenylalanine (DAKIN) 1911, 9, 155
- C₁₀H₁₃O₂N₃** *n*-Butyric aldehyde *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 237
- Isobutyric aldehyde *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 237
- Methylethyl ketone *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 238
- C₁₀H₁₃O₂Cl** 3-Methoxy-4-ethoxybenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 680
- C₁₀H₁₃O₃N** *p*-Methoxyphenylalanine (methyltyrosine) (DAKIN) 1910-11, 8, 20
- C₁₀H₁₄NBr** *m*-Bromodiethylaniline (JACOBS and HEIDELBERGER) 1915, 21, 127
- C₁₀H₁₆ON₂** *p*-Dimethylaminophenylaminoethanol (JACOBS and HEIDELBERGER) 1915, 21, 420

$C_{10}H_{16}O_7N_4$	Vicine (LEVENE and SENIOR)	1916, 25, 611
$C_{10}H_{19}O_2Br$	<i>sec.</i> -Octyl bromoacetate (JACOBS and HEIDELBERGER)	1915, 21, 468

 C_{10} IV

$C_{10}H_7O_2N_2Cl$	α -Chlorobenzalhydantoin (WHEELER, HOFFMAN, and JOHNSON)	1911-12, 10, 156
$C_{10}H_7O_2N_2Br$	α -Bromobenzalhydantoin (WHEELER, HOFFMAN, and JOHNSON)	1911-12, 10, 154
$C_{10}H_8O_2N_2S$	α -Mercaptobenzalhydantoin (WHEELER, HOFFMAN, and JOHNSON)	1911-12, 10, 155
$C_{10}H_8O_3N_2Cl_2$	3,5-Dichlorotyrosinehydantoin (WHEELER, HOFFMAN, and JOHNSON)	1911-12, 10, 152
$C_{10}H_9O_2NCl_2$	<i>m</i> -Chloroacetylaminomethylbenzoyl chloride (JACOBS and HEIDELBERGER)	1915, 20, 693
$C_{10}H_9O_3NCl_2$	<i>p</i> -Chloroacetylaminophenyl chloroacetate (JACOBS and HEIDELBERGER)	1915, 21, 134
$C_{10}H_{10}ON_2S$	2-Thio-4-benzylhydantoin (JOHNSON and O'BRIEN)	1912, 12, 211
$C_{10}H_{10}O_2NCl$	<i>m</i> -Chloroacetylaminacetophenone (JACOBS and HEIDELBERGER)	1915, 21, 140
	ω -Chloroacetylaminacetophenone (JACOBS and HEIDELBERGER)	1915, 21, 472
$C_{10}H_{10}O_2NBr$	<i>p</i> -Acetaminophenyl bromomethyl ketone (<i>p</i> -acetaminophenacyl bromide) (JACOBS and HEIDELBERGER)	1915, 21, 459
$C_{10}H_{10}O_2N_2S$	Thiotyrosinehydantoin (JOHNSON and BRAUTLECHT)	1912, 12, 190
$C_{10}H_{10}O_3NCl$	Chloroacetylaminomethyl benzoate (JACOBS and HEIDELBERGER)	1915, 21, 406
$C_{10}H_{11}O_2N_2Cl$	Chloroacetylbenzylurea (JACOBS and HEIDELBERGER)	1915, 21, 152
	<i>m</i> -Chloroacetylaminomethylbenzamide (JACOBS and HEIDELBERGER)	1915, 20, 694
$C_{10}H_{11}O_3N_2Br$	γ -Bromopropyl- <i>p</i> -nitrobenzamide (JACOBS and HEIDELBERGER)	1915, 21, 421
$C_{10}H_{11}O_4N_2Cl$	2-Methoxy-5-nitrochloroacetylbenzylamine (JACOBS and HEIDELBERGER)	1915, 20, 691
$C_{10}H_{12}ONCl$	Chloroacetyl- <i>o</i> -methylbenzylamine (JACOBS and HEIDELBERGER)	1915, 20, 686
$C_{10}H_{12}ONCl_3$	2,4,6-Trichlorophenoxyethyldimethylamine (JACOBS and HEIDELBERGER)	1915, 21, 443
$C_{10}H_{12}O_2NCl$	Chloroacetylphenylaminoethanol (JACOBS and HEIDELBERGER)	1915, 21, 418
	α -Phenyl- α -oxy- β -chloroacetylaminooethane (JACOBS and HEIDELBERGER)	1915, 21, 431

$C_{10}H_{12}O_2NBr$	<i>o</i> -Acetaminophenoxyethyl bromide (JACOBS and HEIDELBERGER)	1915, 21, 446
	Bromoacetylphenylaminoethanol (JACOBS and HEIDELBERGER)	1915, 21, 419
$C_{10}H_{12}O_2NI$	α -Iodopropionyl- <i>o</i> -anisidine (JACOBS and HEIDELBERGER)	1915, 21, 135
	β -Iodopropionyl- <i>o</i> -anisidine (JACOBS and HEIDELBERGER)	1915, 21, 136
$C_{11}H_{12}O_3N_4S$	2-Oxy-6-methyl-9-ethylpurine-8-thioglycollic acid (JOHNS and BAUMANN)	1913, 15, 520
$C_{10}H_{13}ON_2Cl$	<i>m</i> -Chloroacetylaminodimethylaniline (JACOBS and HEIDELBERGER)	1915, 21, 113
$C_{10}H_{14}O_5N_3P$	Guanylic acid, barium and brucine salts (LEVENE and JACOBS)	1912, 12, 424
	(JONES and RICHARDS)	1915, 20, 33
$C_{10}H_{17}O_{12}N_3P_2$	Hexocytidine diphosphoric acid, barium and brucine salts (LEVENE and JACOBS)	1912, 12, 419
$C_{10}H_{19}O_2N_4Br$	Acetoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER)	1915, 21, 449
$C_{10}H_{19}O_2N_6Cl$	Chloroacetylmethylurea and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 151
$C_{11}H_{20}ON_5Cl$	Chloroacetdimethylamide and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 148
	Chloroacetethylamide and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 149
$C_{10}H_{20}O_2N_5I$	Iodoacetylaminethanol and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 408

C_{11} Group

C_{11} II

$C_{11}H_{23}I$	Undecylic iodide (LEVENE, WEST, ALLEN, and VAN DER SCHEER)	1915, 23, 72
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C_{11} III

$C_{11}H_{11}ON_3$	2-Oxy-6-methylphenylaminopyrimidine (JOHNSON and CLAPP)	1908-09, 5, 64
$C_{11}H_{11}O_3N$	Cinnamoylglycocoll (DAKIN)	1908-09, 5, 305
$C_{11}H_{11}O_4Br$	Bromoethyl acetylsalicylate (JACOBS and HEIDELBERGER)	1915, 21, 451

- $C_{11}H_{12}O_3N_2$ *p*-Methoxybenzylhydantoin (WHEELER, HOFFMAN, and JOHNSON) 1911-12, 10, 156
- $C_{11}H_{13}OBr$ Mesityl bromomethyl ketone (2,4,6-trimethylphenyl bromide) (JACOBS and HEIDELBERGER) 1915, 21, 459
- $C_{11}H_{13}O_2Cl$ 2-Acetoxy-3,5-dimethylbenzyl chloride (*o*-acetoxy-mesityl pseudochloride) (JACOBS and HEIDELBERGER) 1915, 20, 670
- $C_{11}H_{13}O_3N$ Phenylpropionylglycocoll (DAKIN) 1908, 4, 431
- $C_{11}H_{13}O_4N$ Phenyl- β -oxypropionylglycocoll (DAKIN) 1908-09, 5, 308
- $C_{11}H_{14}O_3N$ *p*-Methyl- α -uramidophenylpropionic acid (DAKIN) 1911, 9, 159
- $C_{11}H_{15}O_2N_3$ Isovaleric aldehyde *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 237
- Methylisopropyl ketone *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 238
- $C_{11}H_{15}O_5N_5$ Adenine hexose compound (MANDEL and DUNHAM) 1912, 11, 85
- $C_{11}H_{15}O_6N_3$ *d*-Lyxose *p*-nitrophenylhydrazone (LEVENE and LA FORGE) 1914, 18, 326
- $C_{11}H_{15}O_6N_5$ Guanine hexoside from thymus nucleic acid (LEVENE and JACOBS) 1912, 12, 378
- $C_{11}H_{21}N_5O_5$ Arginine-glutaminic acid dipeptide from gelatin (LEVENE and BIRCHARD) 1912-13, 13, 285

C₁₁ IV

- $C_{11}H_8O_3N_2S$ 2-Thio-4-piperonalhydantoin (JOHNSON and O'BRIEN) 1912, 12, 213
- $C_{11}H_9ON_2Cl$ 6-Chloroacetyl aminoquinoline and hydrochloride (JACOBS and HEIDELBERGER) 1915, 21, 143
- $C_{11}H_{10}O_2N_2S$ 2-Thio-4-anisalhydantoin (JOHNSON and O'BRIEN) 1912, 12, 212
- $C_{11}H_{10}O_3N_2S$ 1-Phenyl-2-thiohydantoin-4-acetic acid (BRAUT-LECHT) 1911-12, 10, 145
- $C_{11}H_{11}O_2N_3S$ 1-Phenyl-2-thiohydantoin-4-acetamide (BRAUT-LECHT) 1911-12, 10, 145
- $C_{11}H_{11}O_3NBr_2$ Phenyl- α , β -dibromopropionylglycocoll (DAKIN) 1908-09, 5, 307
- $C_{11}H_{11}O_5N_2Cl$ 2-Acetoxy-5-nitrochloroacetylbenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 690
- Chloroacetyl aminoethyl *m*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 411
- Chloroacetyl aminoethyl *o*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 410
- Chloroacetyl aminoethyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 411

- $C_{11}H_{12}ON_2S$ 1-Phenyl-4-ethyl-2-thiohydantoin (BRAUTLECHT)
1911-12, 10, 143
- $C_{11}H_{12}O_2NBr$ 3-Acetamino-4-tolyl bromomethyl ketone (3-acetamino-4-methylphenacyl bromide) (JACOBS and HEIDELBERGER)
1915, 21, 460
- $C_{11}H_{12}O_3NCI$ Chloroacetylaminomethyl benzoate (JACOBS and HEIDELBERGER)
1915, 21, 408
- $C_{11}H_{12}O_4NCI$ Chloroacetylaminomethyl anisate (JACOBS and HEIDELBERGER)
1915, 21, 406
- $C_{11}H_{12}O_4NBr$ Phenyl- α -bromo- β -oxypropionylglycocoll (DAKIN)
1908-09, 5, 307
- $C_{11}H_{13}O_2N_2I$ *p*-Acetaminoiodoacetylbenzylamine (JACOBS and HEIDELBERGER)
1915, 20, 687
- $C_{11}H_{13}O_3N_2Cl$ Chloroacetylaminomethyl *p*-aminobenzoate (JACOBS and HEIDELBERGER)
1915, 21, 412
- $C_{11}H_{13}O_3N_3S$ Hydantoic acid, $C_6H_5NHCSNHCH(COOH)CH_2CONH_2$, and potassium salt (BRAUTLECHT)
1911-12, 10, 145
- $C_{11}H_{14}O_2NCI$ Chloroacetylaminomethyl *o*-tolyl ether (JACOBS and HEIDELBERGER)
1915, 21, 416
- α -*p*-Tolyl- α -oxy- β -chloroacetylaminomethane (JACOBS and HEIDELBERGER)
1915, 21, 433
- $C_{11}H_{14}O_3NCI$ 1,2-Dimethylchloroacetylbenzylamine (JACOBS and HEIDELBERGER)
1915, 20, 692
- $C_{11}H_{15}O_4N_2Br$ *d*-Lyxose *p*-bromophenylhydrazone (LEVENE and LA FORGE)
1914, 18, 325
- Urine pentose *p*-bromophenylhydrazone (LEVENE and LA FORGE)
1914, 18, 322
- $C_{11}H_{15}O_{13}N_2P_2$ Hexothymidine diphosphoric acid, barium and brucine salts (LEVENE and JACOBS)
1912, 12, 417
- $C_{11}H_{20}O_3N_5Cl$ Chloroacetylurethane and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 152
- $C_{11}H_{21}O_2N_4I$ Carbethoxyethylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER)
1915, 21, 467
- $C_{11}H_{22}O_2N_5Cl$ Chloroacetylaminoisopropanol and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 425
- $C_{11}H_{24}O_2NCI$ Valeryl- α -methylcholine chloride (valeryl- β -methylethoxytrimethylammonium chloride), chloroplatinate, and chloraurate (MENGE)
1912-13, 13, 106

C₁₁ V

- $C_{11}H_{11}O_3NCIBr$ Phenyl- α -bromo- β -chloropropionylglycocoll (DAKIN)
1908-09, 5, 308

C₁₂ Group**C₁₂ II**

- C₁₂H₁₂O₂** β -Methoxy- α -naphthobenzyl alcohol (JACOBS and HEIDELBERGER) 1915, 20, 674
- C₁₂H₂₀N₂** *p*-Aminodipropylaniline (JACOBS and HEIDELBERGER) 1915, 21, 116
- C₁₂H₂₅I** Dodecyl iodide (LEVENE and WEST) 1914, 18, 478

C₁₂ III

- C₁₂H₁₁OBr** α -Naphthyl bromoethyl ether (α -naphthoxyethyl bromide) (JACOBS and HEIDELBERGER) 1915, 21, 441
- C₁₂H₁₃ON₃** 2-Oxy-3-methyl-6-methylphenylaminopyrimidine (JOHNSON and CLAPP) 1908-09, 5, 65
- C₁₂H₁₃O₄Br** Bromoethyl acetyl-*p*-cresotinate (JACOBS and HEIDELBERGER) 1915, 21, 452
- C₁₂H₁₃O₅Cl** Chloroacetyloxyethyl anisate (JACOBS and HEIDELBERGER) 1915, 21, 471
- C₁₂H₁₅O₃N** Acetyl-*p*-methylphenylalanine (DAKIN) 1911, 9, 158
- C₁₂H₁₆O₃N₂** 3-Nitro-4-oxybenzylpiperidine (JACOBS and HEIDELBERGER) 1915, 20, 669
- C₁₂H₁₈ON₂** 3-Amino-4-oxybenzylpiperidine and hydrochloride (JACOBS and HEIDELBERGER) 1915, 20, 669
- p*-Nitrosodipropylaniline (JACOBS and HEIDELBERGER) 1915, 21, 115
- C₁₂H₂₁NO₁₁** Chondrosin (LEVENE and LA FORGE) 1913, 15, 73; 1914, 18, 239
- C₁₂H₃₂O₄₁P₁₀** Di-inosite triphosphoric acid ester and pentabarium salt (ANDERSON) 1912, 12, 112

C₁₂ IV

- C₁₂H₁₀ONBr** β -(ω -Bromoacetyl)-quinaldine (JACOBS and HEIDELBERGER) 1915, 21, 463
- C₁₂H₁₁O₂N₂Cl** *p*-Nitrobenzylpyridinium chloride (JACOBS and HEIDELBERGER) 1915, 20, 667
- C₁₂H₁₂O₂N₂S** 2-Thio-3-acetyl-4-benzylhydantoin (JOHNSON and O'BRIEN) 1912, 12, 211
- C₁₂H₁₂O₃N₂S** 1-Phenyl-2-thiohydantoin-4-propionic acid (BRAUTLECHT) 1911-12, 10, 146
- C₁₂H₁₂N₃SI** 2-Ethylmercapto-5-iodo-6-anilinopyrimidine (JOHNSON and JOHNS) 1905-06, 1, 314

- $C_{12}H_{13}O_3N_2Cl$ Chloroacetylaminoisopropyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 425
 γ -Chloroacetylaminopropyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 423
 p -Nitrobenzoylaminoisopropyl chloroacetate (JACOBS and HEIDELBERGER) 1915, 21, 426
 γ -*p*-Nitrobenzoylaminoisopropyl chloroacetate (JACOBS and HEIDELBERGER) 1915, 21, 422
- $C_{12}H_{14}ON_2S$ 1-Phenyl-4-isopropyl-2-thiohydantoin (BRAUTLECHT) 1911-12, 10, 144
- $C_{12}H_{14}O_2NI$ 3-Acetamino-4-tolyl ω -iodoethyl ketone (3-acetamino-4-methyl- ω -iodopropiophenone) (JACOBS and HEIDELBERGER) 1915, 21, 461
- $C_{12}H_{14}O_3NCl$ Chloroacetylaminooethyl *o*-toluate (JACOBS and HEIDELBERGER) 1915, 21, 409
 Chloroacetylaminooethyl *p*-toluate (JACOBS and HEIDELBERGER) 1915, 21, 409
- $C_{12}H_{14}O_3NI$ *m*-Iodoacetylaminomethylbenzoic acid ethyl ester (JACOBS and HEIDELBERGER) 1915, 20, 693
- $C_{12}H_{14}O_4NCl$ Chloroacetylaminooethyl anisate (JACOBS and HEIDELBERGER) 1915, 21, 414
- $C_{12}H_{15}O_2N_2Cl$ 1-Methyl-2-acetaminochloroacetylbenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 688
 1-Methyl-4-acetaminochloroacetylbenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 688
- $C_{12}H_{17}ON_2Cl$ *p*-Chloroacetylaminodiethylaniline (JACOBS and HEIDELBERGER) 1915, 21, 115
- $C_{12}H_{15}O_2N_2Cl$ Chloroacetyl-*p*-dimethylaminophenylaminoethanol (JACOBS and HEIDELBERGER) 1915, 21, 420
- $C_{12}H_{24}ON_5Cl$ Chloroacetdiethylamide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 149
- $C_{12}H_{24}O_2N_5Cl$ β -Chloroacetyl-amino- γ -butanol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 429
 δ -Chloroacetyl-amino-*n*-butanol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 427
 Chloroacetylaminooethyl ethyl ether and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 416

C₁₂ V

- C₁₂H₁₃O₃NCIBr** Bromoethyl *m*-chloroacetylaminooethylbenzoate (JACOBS and HEIDELBERGER) 1915, 21, 452
- C₁₂H₂₅O₂NCIBr** α -Bromoisocapronyl- α -methylecholine chloride (α -bromoisocapronyl- β -methylethoxytrimethylammonium chloride) and chlorplatinate (MENGE) 1912-13, 13, 107

C₁₃ Group**C₁₃ II**

- C₁₃H₂₆O₂** Tridecylic acid (LEVENE and WEST) 1914, 18, 465
(LEVENE, WEST, ALLEN, and VAN DER SCHEER) 1915, 23, 73
- C₁₃H₂₇I** Tridecylic iodide (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 528

C₁₃ III

- C₁₃H₁₁O₃Cl** 2-Oxy-3-carbomethoxynaphthobenzyl chloride (JACOBS and HEIDELBERGER) 1915, 20, 682
- C₁₃H₁₈N₄Cl₂** *o*-Chlorobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 665
p-Chlorobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 665
- C₁₃H₁₉O₈N₃** *d*- β -Mannoheptose *p*-nitrophenylhydrazone (PEIRCE) 1915, 23, 333
- C₁₃H₂₀ON₂** *o*-Aminophenoxyethylpiperidine and hydrochloride (JACOBS and HEIDELBERGER) 1915, 21, 448
- C₁₃H₂₀O₇N₂** *d*- β -Mannoheptonic acid phenylhydrazide (PEIRCE) 1915, 23, 331

C₁₃ IV

- C₁₃H₁₄O₃NCI** Chloroacetylaminooethyl cinnamate (JACOBS and HEIDELBERGER) 1915, 21, 415
- C₁₃H₁₄O₃N₂S₂** *p*-Ethylxanthogenate-4-benzylhydantoin (JOHNSON and BRAUTLECHT) 1912, 12, 189
- C₁₃H₁₄O₅NCI** Chloroacetylaminooethyl acetylsalicylate (JACOBS and HEIDELBERGER) 1915, 21, 414
1,2-Diacetoxychloroacetylbenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 691

- $C_{13}H_{15}O_5N_2Cl$ β -Chloroacetylaminog- γ -butyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 429
 δ -Chloroacetylaminobutyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 428
 Chloroacetylethylaminooethyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 417
 $C_{13}H_{16}ONCl_3$ 2,4,6-Trichlorophenoxyethylpiperidine and hydrochloride (JACOBS and HEIDELBERGER) 1915, 21, 443
 $C_1H_{17}ON_4Br_3$ 2-Oxy-3,5-dibromobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 20, 670
 $C_{13}H_{17}O_4N_6Cl$ 2,4-Dinitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 667
 $C_{13}H_{18}O_2N_5Cl$ *m*-Nitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 666
 α -Nitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 666
 p -Nitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 666
 $C_{13}H_{18}O_3N_5Cl$ 2-Oxy-5-nitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 671
 $C_{13}H_{18}O_4NCI$ γ -Chloroacetylaminopropyl anisate (γ -chloroacetylaminopropyl *p*-methoxybenzoate) (JACOBS and HEIDELBERGER) 1915, 21, 423
 $C_{13}H_{18}N_4ClBr$ *o*-Bromobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 665
 p -Bromobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 665
 $C_{15}H_{18}N_4BrI$ *o*-Iodobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 467
 p -Iodobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 20, 665
 $C_{13}H_{20}O_2NCI$ Benzoyl- α -methylcholine chloride (benzoyl- β -methylethoxytrimethylammonium chloride), chloroplatinate, and chloraurate (MENGE) 1912-13, 13, 99

- $C_{13}H_{24}ON_5Cl$ Chloroacetyl piperidide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 150
- $C_{13}H_{26}O_2N_5Cl$ γ -Chloroacetyl amino- β -methyl- β -butanol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 431
- Chloroacetyl aminomethylmethylethyl carbinol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 430
- γ -Chloroacetyl amino- β -pentanol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 430

C₁₄ Group**C₁₄ II**

- $C_{14}H_{26}O_4$ Undecylmalonic acid (LEVENE, WEST, ALLEN, and VAN DER SCHEER) 1915, 23, 73

C₁₄ III

- $C_{14}H_{11}O_4N_3$ Phenylglyoxylic acid *p*-nitrophenylhydrazone (DAKIN and DUDLEY) 1913, 15, 139
- $C_{14}H_{15}O_4N_2$ 3-Nitro-4-acetoxybenzyl piperidine and hydrochloride (JACOBS and HEIDELBERGER) 1915, 20, 669
- $C_{14}H_{15}N_5Cl$ *o*-Cyanobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 666
- p*-Cyanobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 666
- $C_{14}H_{21}N_4Cl$ *m*-Methylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 663
- o*-Methylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 663
- p*-Methylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 663
- $C_{14}H_{21}N_4I$ Phenylethylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 467

C₁₄ IV

- $C_{14}H_{12}ON_3Cl$ *p*-Chloroacetyl aminoazobenzene (JACOBS and HEIDELBERGER) 1915, 21, 117
- $C_{14}H_{12}O_2N_3Cl$ Benzeneazo-*m*-chloroacetyl aminophenol (JACOBS and HEIDELBERGER) 1915, 21, 133
- $C_{14}H_{12}O_3N_2Hg$ 4-*p*-Oxybenzeneazophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 516

- $C_{14}H_{12}O_4N_2Hg$ 4-*o,p*-Dioxybenzeneazophenylmercuric acetate
 (JACOBS and HEIDELBERGER) 1915, 20, 517
- $C_{11}H_8ONBr_3$ Tribromo-*p*-methylphenoxyethylpiperidine (JA-
 COBS and HEIDELBERGER) 1915, 21, 445
- $C_{14}H_{11}O_3N_5Br$ *m*-Nitrophenacylhexamethylenetetraminium
 bromide (JACOBS and HEIDELBERGER) 1915, 21, 459
- $C_{14}H_{15}O_4N_5Br$ *o*-Nitrophenyl bromoacetate and hexamethyl-
 enetetramine (JACOBS and HEIDELBERGER) 1915, 21, 470
- $C_{14}H_{19}ON_5Cl_2$ Chloroacetyl-*o*-chloroaniline and hexamethylene-
 tetramine (JACOBS and HEIDELBERGER) 1915, 21, 110
- $C_{14}H_{19}O_2N_4Cl$ 3-Aldehydo-4-oxybenzylhexamethylenetetramin-
 ium chloride (JACOBS and HEIDELBERGER) 1915, 20, 683
- 3,4-Methylenedioxybenzylhexamethylenetetra-
 minium chloride (JACOBS and HEIDELBERGER) 1915, 20, 677
- $C_{14}H_{19}O_2N_4Br$ Phenylbromoacetate and hexamethylenetetra-
 mine (JACOBS and HEIDELBERGER) 1915, 21, 469
- $C_{14}H_{19}O_3N_4Cl$ 3-Carboxy-4-oxybenzylhexamethylenetetramin-
 ium chloride (JACOBS and HEIDELBERGER) 1915, 20, 681
- $C_{14}H_{19}O_3N_6Cl$ *m*-Nitrochloroacetylaniline and hexamethylene-
 tetramine (JACOBS and HEIDELBERGER) 1915, 21, 112
- $C_{14}H_{20}ON_4Br_2$ *p*-Bromophenoxyethylhexamethylenetetramin-
 ium bromide (JACOBS and HEIDELBERGER) 1915, 21, 444
- $C_{14}H_{20}ON_5Cl$ *p*-Aminophenacylhexamethylenetetraminium chlo-
 ride (JACOBS and HEIDELBERGER) 1915, 21, 460
- Chloroacetylaniline and hexamethylenetetramine
 (JACOBS and HEIDELBERGER) 1915, 21, 104
- $C_{14}H_{20}ON_5Br$ ω -Bromoacetophenoneoxime and hexamethylene-
 tetramine (JACOBS and HEIDELBERGER) 1915, 21, 456
- Bromoacetylaniline and hexamethylenetetramine
 (JACOBS and HEIDELBERGER) 1915, 21, 104
- $C_{14}H_{20}O_2N_5Cl$ *m*-Chloroacetylaminophenol and hexamethylene-
 tetramine (JACOBS and HEIDELBERGER) 1915, 21, 133
- o*-Chloroacetylaminophenol and hexamethylene-
 tetramine (JACOBS and HEIDELBERGER) 1915, 21, 131

$C_{11}H_{20}O_3N_5Cl$ 2-Methoxy-5-nitrobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 676

3-Nitro-4-methoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 676

$C_{14}H_{20}O_3N_3Cl$ Chloroacetylaminethyl *p*-nitrobenzoate and trimethylamine (JACOBS and HEIDELBERGER)

1915, 21, 412

$C_{11}H_{21}ON_2Cl$ *p*-Chloroacetylaminodipropylaniline (JACOBS and HEIDELBERGER)

1915, 21, 116

$C_{14}H_{21}ON_4Br$ Phenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER)

1915, 21, 440

$C_{14}H_{21}ON_4Cl$ *o*-Methoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 673

p-Methoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 673

$C_{14}H_{22}O_2NCl$ Phenylacetyl- γ -homocholine chloride, chloroplatinate, and chloroaurate (MENGE)

1912-13, 13, 104

Phenylacetyl- α -methylcholine chloride (phenylacetyl- β -methylethoxytrimethylammonium chloride), chloroplatinate, and chloroaurate (MENGE)

1912-13, 13, 101

Phenylacetyl- β -methylcholine chloride (phenylacetyl- β -oxypropyltrimethylammonium chloride), chloroplatinate, and chloroaurate (MENGE)

1912-13, 13, 102

C_{14} V

$C_{14}H_{17}ON_5ClBr$ *p*-Bromochloroacetylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 110

$C_{14}H_{17}ON_5ClI$ *m*-Iodochloroacetylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 111

C_{15} Group

C_{15} II

$C_{15}H_{12}O_5$ Baptisol (CLARK)

1915, 21, 650

C₁₅ III

- C₁₅H₁₄O₅N₆ Glyceric aldehyde *p*-nitrophenylhydrazone (DAKIN and DUDLEY) 1913, 15, 138
- C₁₅H₁₈O₆N₂ Diazobenzalglucosaminic acid ethyl ester (LEVENE and LA FORGE) 1915, 21, 349
- C₁₅H₂₃N₄Cl 3,5-Dimethylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 663

C₁₅ IV

- C₁₅H₁₁O₅N₂Cl *o*-Chloroacetylaminophenyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 132
- C₁₅H₁₂O₃NCl *o*-Chloroacetylaminophenyl benzoate (JACOBS and HEIDELBERGER) 1915, 21, 131
- C₁₅H₁₃O₃NHg 4-*o*-Oxybenzylideneaminophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 518
- C₁₅H₁₄O₃NCl β-Acetoxy-α-chloroacetylnaphthobenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 689
- Chloroacetylaminooethyl β-naphthoate (JACOBS and HEIDELBERGER) 1915, 21, 410
- C₁₅H₁₄O₃NI β-Acetoxy-α-iodoacetylnaphthobenzylamine (JACOBS and HEIDELBERGER) 1915, 20, 689
- C₁₅H₁₄O₃N₂Hg 3-Methyl-4-*p*-oxybenzeneazophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 520
- C₁₅H₁₅ON₂Cl β-Chloroacetyl-α,α-phenylbenzylhydrazine (JACOBS and HEIDELBERGER) 1915, 21, 474
- C₁₅H₁₉O₂N₄Br₃ 2-Acetoxy-3,5-dibromobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 20, 671
- 4-Acetoxy-3,5-dibromobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 20, 671
- C₁₅H₂₀ON₄Br₄ Tribromo-*p*-methylphenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 445
- C₁₅H₂₀O₄N₅Br *p*-Nitrobenzoyloxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 450
- C₁₅H₂₀O₄N₅I 3-Nitro-4-acetoxybenzylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 20, 673
- p*-Nitrobenzoyloxyethylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 451

- $C_{15}H_{21}ON_4Br$ *p*-Methylphenacylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 456
- $C_{15}H_{21}ON_4I$ *p*-Methylphenacylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 457
- $C_{15}H_{21}O_2N_4Br$ Benzoyloxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 450
- p*-Methoxyphenacylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 462
- $C_{15}H_{21}O_3N_2Cl$ Diethylaminoethyl *p*-chloroacetylaminobenzoate (chloroacetyl novocain) (JACOBS and HEIDELBERGER) 1915, 21, 139
- $C_{15}H_{21}O_3N_4Cl$ 3-Carbomethoxy-4-oxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 681
- 2-Methoxy-5-carboxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 682
- 2-Oxy-3-carboxy-5-methylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 681
- 2-Oxy-3-methoxy-5-aldehydobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 683
- $C_{15}H_{21}O_3N_6Cl$ *m*-Nitrochloroacetyl-*p*-toluidine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 112
- $C_{15}H_{22}ON_5Cl$ *o*-Acetaminobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 668
- p*-Acetaminobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 668
- Chloroacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 686
- Chloroacetyl-methylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 105
- Chloroacetyl-*m*-toluidine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 108

C₁₅H₂₂ON₅Cl—*continued*:

Chloroacetyl-*o*-toluidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 107

Chloroacetyl-*p*-toluidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 108

C₁₅H₂₂O₂N₅Cl *o*-Chloroacetylaminobenzyl alcohol and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 138

Chloroacetyl-*o*-anisidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 135

Chloroacetyl-*p*-anisidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 138

C₁₅H₂₂O₄N₅Cl 2-Nitro-3,4-dimethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 679

C₁₅H₂₂O₆NCl Monobenzalglucosaminic acid ethyl ester hydrochloride (LEVENE and LA FORGE)

1915, 21, 348

C₁₅H₂₃ON₄Cl *o*-Ethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 677

C₁₅H₂₃ON₄Br *m*-Methylphenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER)

1915, 21, 441

o-Methylphenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER)

1915, 21, 440

p-Methylphenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER)

1915, 21, 441

C₁₅H₂₃O₂N₄Cl 2,3-Dimethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 678

3,4-Dimethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)

1915, 20, 678

C₁₅ V

C₁₅H₂₁ON₅Cl 5-Iodochloroacetyl-*o*-toluidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)

1915, 21, 112

C₁₆ Group

C₁₆H₃₄ Hexadecane (LEVENE, WEST, and VAN DER SCHEER)
1915, 20, 523

C₁₆ II

C₁₆H₂₀N₄ *p*-Aminobenzeneazodiethylaniline (JACOBS and HEIDELBERGER)
1915, 21, 123

C₁₆ III

C₁₆H₁₁O₄N₃ 1-Phenyl-4-*p*-nitrobenzalhydantoin (JOHNSON and BRAUTLECHT)
1912, 12, 184

C₁₆H₁₅O₂N₃ 1-Phenyl-4-*p*-aminobenzalhydantoin, hydrochloride, hydroiodide, nitrate, and sulfate (JOHNSON and BRAUTLECHT)
1912, 12, 184

C₁₆H₁₆O₄N₂ Salicylamide ethylene ether (JACOBS and HEIDELBERGER)
1915, 21, 449

C₁₆ IV

C₁₆H₁₁O₃N₃S 1-Phenyl-2-thio-4-*p*-nitrobenzalhydantoin (JOHNSON and BRAUTLECHT)
1912, 12, 182

C₁₆H₁₄ON₂S 1-Phenyl-4-benzyl-2-thiohydantoin (BRAUTLECHT)
1911-12, 10, 144

C₁₆H₁₄O₂NCI Chloroacetyl- ω -anilinoacetophenone (JACOBS and HEIDELBERGER)
1915, 21, 106

C₁₆H₁₄O₂N₂S 1-Phenyl-4-*p*-hydroxybenzyl-2-thiohydantoin (BRAUTLECHT)
1911-12, 10, 144

C₁₆H₁₁O₃NCI *o*-(Chloroacetylaminobenzyl benzoate (JACOBS and HEIDELBERGER)
1915, 21, 139

C₁₆H₁₅O₂N₂Cl Chloroacetylphenylglycineanilide (JACOBS and HEIDELBERGER)
1915, 21, 106

C₁₆H₁₆ON₃Cl Chloroacetylaminoozotoluene (*o*-tolueneazochloroacetyl-*o*-toluidine) (JACOBS and HEIDELBERGER)
1915, 21, 118

C₁₆H₁₆O₂NCI α,β -Diphenylchloroacetylaminooethanol (JACOBS and HEIDELBERGER)
1915, 21, 434

α,β -Isodiphenylchloroacetylaminooethanol (JACOBS and HEIDELBERGER)
1915, 21, 435

C₁₆H₁₆O₃N₅Cl 4-Nitrobenzeneazo-2'-chloroacetyl-amino-4'-dimethylaminobenzene (JACOBS and HEIDELBERGER)
1915, 21, 129

C₁₆H₁₇ON₄Cl Benzeneazo-2'-chloroacetyl-amino-4'-dimethylaminobenzene (JACOBS and HEIDELBERGER)
1915, 21, 128

p-Chloroacetylaminobenzeneazodimethylaniline (JACOBS and HEIDELBERGER)
1915, 21, 122

- $C_{16}H_{17}O_2N_3Hg$ 4-*p*-Dimethylaminobenzeneazophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 516
- $C_{16}H_{22}O_2N_5Cl$ ω -Chloroacetylaminooacetophenone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 472
- $C_{16}H_{22}O_2N_5Br$ *p*-Acetaminophenacylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 460
- $C_{16}H_{23}ON_4Br$ *p*-Ethylphenacylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 459
- m*-Xylyl bromomethyl ketone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 458
- o*-Xylyl bromomethyl ketone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 458
- $C_{16}H_{23}O_2N_4Br$ *p*-Ethoxyphenacylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 463
- $C_{16}H_{23}O_2N_5Cl$ *m*-Chloroacetylaminooacetophenone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 141
- $C_{16}H_{23}O_2N_6Cl$ β -Acetyl- α -chloroacetyl- α -phenylhydrazine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 474
- m*-Chloroacetylaminomethylbenzamide and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 694
- Chloroacetylbenzylurea and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 152
- $C_{16}H_{23}O_3N_2Cl$ *m*-Chloroacetylaminomethylbenzoic acid diethylaminoethyl ester (JACOBS and HEIDELBERGER) 1915, 20, 693
- $C_{16}H_{23}O_3N_4Cl$ 2-Methoxy-5-carbomethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 683
- $C_{15}H_{24}ON_5Cl$ Chloroacetyl-*o*-methylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 686
- Chloroacetyl-*m*-4-xyldine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 109

- $C_{16}H_{24}O_2N_5Cl$ α -Phenyl- α -oxy- β -chloroacetylaminooethane and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 432
- $C_{16}H_{24}O_2N_5Br$ *o*-Acetaminophenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 448
- p*-Acetaminophenoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 446
- $C_{16}H_{24}O_2N_5I$ β -Iodopropionyl-*o*-anisidine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 136
- $C_{16}H_{25}ON_6Cl$ *m*-Chloroacetylaminodimethylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 113
- p*-Chloroacetylaminodimethylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 114
- $C_{16}H_{25}O_2N_4Cl$ 3-Methoxy-4-ethoxybenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 680
- $C_{16}H_{32}O_9N_4S$ Kytine sulfate (LEVENE and VAN DER SCHEER) 1915, 22, 427

C₁₇ Group**C₁₇ II**

- $C_{17}H_{15}N_3$ *o*-Tolueneazo- α -naphthylamine (JACOBS and HEIDELBERGER) 1915, 21, 121
- $C_{17}H_{24}O_{10}$ Cornin (MILLER) 1909-10, 7, xliii
- $C_{17}H_{34}O_3$ Methyl α -hydroxypalmitate (LEVENE and WEST) 1914, 18, 466
- $C_{17}H_{35}N$ Sphingamine (LEVENE and JACOBS) 1912, 11, 553

C₁₇ III

- $C_{17}H_{13}O_2N$ α -Benzoylamino-*p*-methyleinnamic acid anhydride (DAKIN) 1911, 9, 154
- $C_{17}H_{13}O_2N_3$ Isobutylglyoxal semicarbazone (DAKIN and DUDLEY) 1914, 18, 38
- $C_{17}H_{13}O_3N$ Benzoylamino-*p*-methoxyeinnamic acid anhydride (DAKIN) 1910-11, 8, 18
- $C_{17}H_{15}O_3N^*$ α -Benzoylamino-*p*-methyleinnamic acid (DAKIN) 1911, 9, 155
- $C_{17}H_{15}O_4N$ Benzoylamino-*p*-methoxyeinnamic acid (DAKIN) 1910-11, 8, 19

- $C_{17}H_{17}O_4N$ Benzoyltyrosine methyl ether (DAKIN) 1910-11, 8, 19
 $C_{17}H_{19}O_3N$ Morphine, picrolonate (WARREN and WEISS) 1907, 3, 336
 $C_{17}H_{20}O_3N_4$ Urine pentose osazone (LEVENE and LA FORGE) 1913, 15, 484
 $C_{17}H_{21}N_4Cl$ β -Naphthobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 664
 $C_{17}H_{23}O_3N$ Atropine, picrolonate (WARREN and WEISS) 1907, 3, 336
 $C_{17}H_{27}O_2N_3$ Methyl *n*-nonyl ketone *p*-nitrophenylhydrazone (DAKIN) 1908, 4, 224
 $C_{17}H_{33}O_2N$ Sphingosine, sulfate, diacetate (LEVENE and JACOBS) 1912, 11, 548
 —, picrolonate (LEVENE and WEST) 1916, 24, 64
 $C_{17}H_{37}O_2N$ Dihydrosphingosine, sulfate (LEVENE and JACOBS) 1912, 11, 550
 —, picrate, picrolonate (LEVENE and WEST) 1916, 24, 66

C_{17} IV

- $C_{17}H_{14}O_3N_2S$ Benzoylbenzalthiohydantoic acid and sodium salt (JOHNSON and O'BRIEN) 1912, 12, 210
 $C_{17}H_{15}O_3N_2Cl$ Chloroacetylphenylaminoethyl *p*-nitrobenzoate (JACOBS and HEIDELBERGER) 1915, 21, 418
 $C_{17}H_{16}O_2NBr$ Bromoacetyl- ω -*o*-toluidinoacetophenone (JACOBS and HEIDELBERGER) 1915, 21, 107
 $C_{17}H_{16}O_3NCl$ Chloroacetyl- ω -*o*-anisidinoacetophenone (JACOBS and HEIDELBERGER) 1915, 21, 137
 $C_{17}H_{19}ON_2Cl$ *p*-Chloroacetylaminioethylbenzylaniline (JACOBS and HEIDELBERGER) 1915, 21, 117
 $C_{17}H_{21}ON_6Cl$ 6-Chloroacetylaminioquinoline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 143
 $C_{17}H_{23}O_2N_4Br_3$ 2-Acetoxy-3,5-dimethyl-4,6-dibromobenzylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 20, 671
 $C_{17}H_{23}O_2N_6Cl$ Chloroacetylaminioethyl *m*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 411
 Chloroacetylaminioethyl *o*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 410
 Chloroacetylaminioethyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 412

- $C_{17}H_{24}O_2N_5Br$ 3-Acetamino-4-methylphenacylhexamethylene-tetraminium bromide (JACOBS and HEIDELBERGER)
1915, 21, 461
- $C_{17}H_{24}O_3N_5Cl$ Ethyl *p*-chloroacetylaminobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 139
- Chloroacetylaminethyl benzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 408
- $C_{17}H_{25}O_2N_4Cl$ 2-Acetoxy-3,5-dimethylbenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER)
1915, 20, 670
- $C_{17}H_{25}O_2N_6I$ *p*-Acetaminoiodoacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 20, 687
- $C_{17}H_{26}ON_5Cl$ Chloroacetyl- ψ -cumidine and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 109
- $C_{17}H_{26}O_2N_5Cl$ Chloroacetyl amino *o*-tolyl ether and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 417
- β -Phenyl- β -oxy- α -chloroacetylaminopropane and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 436
- $C_{17}H_{26}O_3N_6Cl$ 1,2-Dimethoxychloroacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 20, 692

C_{18} Group

- $C_{18}H_{38}$ Octadecane (LEVENE, WEST, and VAN DER SCHEER)
1915, 20, 524

C_{18} II

- $C_{18}H_{18}O_6$ Ethylene anisate (JACOBS and HEIDELBERGER)
1915, 21, 471
- $C_{18}H_{34}O_4$ Ethyl undecylmalonate (LEVENE, WEST, ALLEN, and VAN DER SCHEER)
1915, 23, 73
- $C_{18}H_{36}O_3$ Ethyl α -hydroxypalmitate (LEVENE and WEST)
1914, 18, 466

C_{18} III

- $C_{18}H_{20}O_4N_6$ Isobutylglyoxal dinitrophenylhydrazone (DAKIN and DUDLEY)
1914, 18, 39
- $C_{18}H_{21}O_3N$ Codeine, picrate (WARREN and WEISS)
1907, 3, 336

- $C_{18}H_{22}ON_4$ *p*-Acetaminobenzeneazodiethylaniline (JACOBS and HEIDELBERGER) 1915, 21, 123
 $C_{18}H_{24}O_4N_4$ Deaminochondrosamine phenylosazone (LEVENE and LA FORGE) 1914, 18, 127

C₁₈ IV

- $C_{18}H_{13}O_2N_2Cl$ Benzeneazo- β -naphthyl chloroacetate (JACOBS and HEIDELBERGER) 1915, 21, 470
 $C_{18}H_{15}O_3N_3S$ 1-Phenyl-2-ethylmercapto-4-*p*-nitrobenzalhydantoin (JOHNSON and BRAUTLECHT) 1912, 12, 183
 $C_{18}H_{17}O_5N_4Br_2$ Glucuronic acid *p*-bromophenylhydrazone (LEVENE and LA FORGE) 1913, 15, 76
 $C_{18}H_{20}O_4N_2S_2$ Thietyrosine disulfide (JOHNSON and BRAUTLECHT) 1912, 12, 190
 $C_{18}H_{21}ON_4Cl$ *p*-Chloroacetylaminobenzeneazodiethylaniline (JACOBS and HEIDELBERGER) 1915, 21, 124
 $C_{18}H_{21}ON_4Br$ *p*-Acetaminobenzeneazo-2'-bromo-4'-diethylaminobenzene (JACOBS and HEIDELBERGER) 1915, 21, 128
 $C_{18}H_{21}O_2N_3Hg$ 4-*p*-Diethylaminobenzeneazophenylmercuric acetate (JACOBS and HEIDELBERGER) 1915, 20, 516
 $C_{18}H_{22}ON_5Cl$ Chloroacetyl- α -naphthylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 109
 Chloroacetyl- β -naphthylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 109
 $C_{18}H_{22}ON_3Br$ β -(ω -Bromoacetyl)-quinaldine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 464
 $C_{18}H_{23}ON_4Cl$ β -Methoxy- α -naphthobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 674
 $C_{18}H_{23}ON_4Br$ α -Naphthoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 442
 β -Naphthoxyethylhexamethylenetetraminium bromide (JACOBS and HEIDELBERGER) 1915, 21, 442
 $C_{18}H_{23}O_3N_4Cl$ Chloroacetyloxyethyl anisate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 471
 $C_{18}H_{23}O_3N_6Cl$ Chloroacetylaminoisopropyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 425
 γ -Chloroacetylaminopropyl *p*-nitrobenzoate and

$C_{18}H_{25}O_5N_6Cl$ —continued:

hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 423

p-Nitrobenzoylaminoisopropyl chloroacetate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 427

$C_{18}H_{26}O_2N_5I$ 3-Acetamino-4-tolyl ω -iodoethyl ketone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 462

$C_{18}H_{26}O_3N_5Cl$ *m*-Carbethoxychloroacetylbenzylamine (ethyl *m*-chloroacetylaminomethylbenzoate) (JACOBS and HEIDELBERGER) 1915, 20, 692

Chloroacetylaminioethyl *o*-toluate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 409

Chloroacetylaminioethyl *p*-toluate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1905, 21, 409

$C_{18}H_{26}O_4N_5Cl$ Chloroacetylaminioethyl anisate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 415

$C_{18}H_{27}O_2N_6Cl$ 1-Methyl-4-acetaminochloroacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 688

$C_{18}H_{27}O_{17}NS$ Chondroitin sulfuric acid (LEVENE and LA FORGE) 1913, 15, 72

$C_{18}H_{29}ON_6Cl$ *p*-Chloroacetylaminodiethylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 115

$C_{18}H_{31}O_2N_4Br$ Bornyl bromoacetate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 468

$C_{18}H_{33}O_2N_4Br$ Menthyl bromoacetate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 468

C_{18} V

$C_{18}H_{15}O_5N_3SHg$ 1-Amino-2-(*p*-naphthaleneazophenyl)mercuric acetate)-5-sulfonic acid (JACOBS and HEIDELBERGER) 1915, 20, 517

C_{19} Group

C_{19} III

$C_{19}H_{39}O_2N$ Dimethylsphingosine (LEVENE and JACOBS) 1912, 11, 552

C₁₉ IV

- C₁₉H₂₃O₃N₄Cl** 2-Oxy-3-carbomethoxynaphthobenzylhexamethylenetetraminium chloride (JACOBS and HEIDELBERGER) 1915, 20, 682
- C₁₃H₂₁ON₃Cl** Chloroacetylbis-(*p*-dimethylaminophenyl)-meth-ylamine (chloroacetyl-leucoauramine) (JACOBS and HEIDELBERGER) 1915, 21, 472
- C₁₉H₂₆O₅N₅Cl** Chloroacetylaminioethyl acetylsalicylate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 414,
1,2-Diacetoxychloroacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 692
- C₁₉H₂₆O₁₅N₈P₂** Guanine-cytosine dinucleotide (JONES and RICHARDS) 1915, 20, 30
- C₁₉H₂₇O₅N₆Cl** β -Chloroacetylaminio- γ -butyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 429
 δ -Chloroacetylaminobutyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 428
Chloroacetylethylaminioethyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 418
- C₁₉H₂₉O₃N₆Cl** 1-Acetamino-4-ethoxychloroacetylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 691
- C₁₉H₃₀O₄N₅Cl** γ -Chloroacetylaminopropyl anisate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 424

C₂₀ Group

- C₂₀H₄₂** Eicosane (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 526

C₂₀ II

- C₂₀H₂₀N₂** Benzylphenylhydrazine derivative of reducing component of yeast nucleic acid (Boos) 1908-09, 5, 473
- C₂H₂₁N₁** *p*-Diethylaminobenzeneazo- β -naphthylamine (JACOBS and HEIDELBERGER) 1915, 21, 130
- C₂₀H₃₅O₄** α -Acetoxystearic acid (LEVENE and WEST) 1914, 16, 477
- C₂₀H₄₁I** Eicosyl iodide (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 526

C₂₀ III

- C₂₀H₁₆O₄N₆** Phenylglyoxal di-*p*-nitrophenylhydrazone (DAKIN and DUDLEY) 1913, 15, 138
- C₂₀H₂₄O₂N₂** Quinine, picrolonate (WARREN and WEISS) 1907, 3, 337
- C₂₀H₂₆ON₄** *p*-Acetaminobenzeneazodipropylaniline (JACOBS and HEIDELBERGER) 1915, 21, 124
- C₂₀H₃₂N₈Cl₂** *m*-Xylylenedihexamethylenetetraminium dichloride (JACOBS and HEIDELBERGER) 1915, 20, 664
- o*-Xylylenedihexamethylenetetraminium dichloride (JACOBS and HEIDELBERGER) 1915, 20, 663
- C₂₀H₅₅O₄₉P₉** Acid from wheat bran, barium and brucine salts (ANDERSON) 1912, 12, 457

C₂₀ IV

- C₂₀H₁₈O₄N₄S₂** Tyrosine disulfide hydantoin (JOHNSON and BRAUTLECHT) 1912, 12, 194
- C₂₀H₂₄ON₅Cl** Chloroacetyldiphenylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 105
- C₂₀H₂₄ON₇Cl** *p*-Chloroacetylaminoozobenzene and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 118
- C₂₀H₂₄O₂N₇Cl** Benzeneazo-*m*-chloroacetylaminophenol and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 134
- C₂₀H₂₅ON₄Cl** *p*-Chloroacetylaminobenzeneazodipropylaniline (JACOBS and HEIDELBERGER) 1915, 21, 125
- C₂₀H₂₆O₂N₅Cl** β -Methoxy- α -chloroacetylnaphthobenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 690
- C₂₀H₃₃ON₆Cl** *p*-Chloroacetylaminodipropylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 116

C₂₁ Group**C₂₁ II**

- C₂₁H₁₈O₈** Triacetyl baptisol (CLARK) 1915, 21, 654
- C₂₁H₂₇O₂₀** Algin (alginic acid) (HOAGLAND and LIEB) 1915, 23, 290

C₂₁ III

- C₂₁H₁₈O₄N₆** Benzylglyoxal di-*p*-nitrophenylhydrazone (DAKIN and DUDLEY) 1914, 18, 43

- $C_{21}H_{21}O_6N$ Hydrastine, picrolonate (WARREN and WEISS) 1907, 3, 337
 $C_{21}H_{22}O_2N_2$ Strychnine, picrolonate (WARREN and WEISS) 1907, 3, 334
 $C_{21}H_{34}N_8Cl_2$ Mesityldihexamethylenetetraminium dichloride (JACOBS and HEIDELBERGER) 1915, 20, 664
 $C_{21}H_{39}O_4N$ Diacetyl sphingosine (LEVENE and JACOBS) 1912, 11, 551

C₂₁ IV

- $C_{21}H_{18}ONCl$ Chloroacetyltriphenylmethylamine (JACOBS and HEIDELBERGER) 1915, 21, 473
 $C_{21}H_{23}O_5N_6Cl$ *o*-Chloroacetylaminophenyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 132
 $C_{21}H_{24}O_3N_5Cl$ *o*-Chloroacetylaminophenyl benzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 131
 $C_{21}H_{25}O_3N_4Cl$ Chloroacetyl aminoethyl *p*-(azodiethylaniline)-benzoate (chloroacetyl aminoethyl ester of *p*-carboxybenzeneazo-*p'*-diethylaminobenzene) (JACOBS and HEIDELBERGER) 1915, 21, 413
 $C_{21}H_{26}O_3N_5Cl$ β -Acetoxy- α -chloroacetylnaphthobenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 689
 Chloroacetyl aminoethyl β -naphthoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 410
 $C_{21}H_{26}O_3N_5I$ β -Acetoxy- α -iodoacetylnaphthobenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 20, 690
 $C_{21}H_{27}ON_6Cl$ β -Chloroacetyl- α,α -phenylbenzylhydrazine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 475
 $C_{21}H_{33}O_3N_6Cl$ Diethyl aminoethyl *p*-chloroacetylaminobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 140

C₂₂ Group

- $C_{22}H_{46}$ Docosane (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 528

C₂₂ III

- $C_{22}H_{45}N_4I$ Cetylhexamethylenetetraminium iodide (JACOBS and HEIDELBERGER) 1915, 21, 466

C₂₂ IV

- C₂₂H₁₆ON₃Cl β -Naphthaleneazochloroacetyl- β -naphthylamine
(JACOBS and HEIDELBERGER) 1915, 21, 119
- C₂₂H₂₃ON₄Cl *p*-Diethylaminobenzeneazochloroacetyl- α -naphthylamine (JACOBS and HEIDELBERGER)
1915, 21, 130
- C₂₂H₂₆O₂N₅Cl Chloroacetyl- ω -anilinoacetophenone and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 107
- C₂₂H₂₆O₃N₅Cl *o*-Chloroacetylaminobenzyl benzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 139
- C₂₂H₂₆O₆NCI Dibenzalxylohexosaminic acid ester hydrochloride
(LEVENE and LA FORGE) 1915, 21, 356
- C₂₂H₂₇O₂N₆Cl Chloroacetylphenylglycineanilide and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 106
- C₂₂H₂₅ON₇Cl Chloroacetylaminoozotoluene and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 118
- C₂₂H₂₅O₂N₅Cl α, β -Diphenylchloroacetylaminooethanol and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 434
- α, β -Isodiphenylchloroacetylaminooethanol and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 435
- C₂₂H₂₉ON₇Cl *p*-Chloroacetylaminobenzeneazodimethylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 21, 123
- C₂₂H₃₅O₃N₆Cl *m*-Chloroacetylaminomethylbenzoic acid diethylaminoethyl ester and hexamethylenetetramine (JACOBS and HEIDELBERGER)
1915, 20, 694
- C₂₂H₄₆O₂NCI Palmityl- α -methylcholine chloride (palmityl- β -methylethoxytrimethylammonium chloride) (MENGE)
1912-13, 13, 108

C₂₃ GroupC₂₃ III

- C₂₃H₂₁O₃N α -Phenyl- α -benzoyloxy- β -benzoylaminopropane
(JACOBS and HEIDELBERGER) 1915, 21, 436
- C₂₃H₂₄ON₄ *p*-Acetaminobenzeneazoethylbenzylaniline (JACOBS and HEIDELBERGER)
1915, 21, 126
- C₂₃H₂₆O₄N₂ Brucine, picrotonate (WARREN and WEISS)
1907, 3, 335
- C₂₃H₄₁O₅N Triacetyl sphingosine (LEVENE and JACOBS)
1912, 11, 551

C₂₃ IV

- C₂₃H₂₃ON₄Cl** *p*-Chloroacetylaminobenzeneazoethylbenzylaniline (JACOBS and HEIDELBERGER) 1915, 21, 126
- C₂₃H₂₇O₅N₆Cl** Chloroacetylphenylaminoethyl *p*-nitrobenzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 419
- C₂₃H₂₈O₂N₅Br** Bromoacetyl- ω -*o*-toluidinoacetophenone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 107
- C₂₃H₂₈O₃N₅Cl** Chloroacetyl- ω -*o*-anisidinoacetophenone and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 137
- C₂₃H₃₁ON₆Cl** *p*-Chloroacetylaminophenylbenzylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 117

C₂₄ Group

- C₂₄H₅₀** Isotetracosane from lignoceric acid (LEVENE and WEST) 1913, 14, 265; 1914, 18, 480
- n*-Tetracosane (LEVENE and WEST) 1914, 18, 478

C₂₄ II

- C₂₄H₂₁N₅** *o*-Tolueneazo-*o*-tolueneazo- β -naphthylamine (JACOBS and HEIDELBERGER) 1915, 21, 120
- C₂₄H₄₅O₂** Carnaubic acid (DUNHAM) 1908, 4, 297
- Lignoceric acid (LEVENE and JACOBS) 1912, 12, 385
- (LEVENE and WEST) 1913, 14, 263
- (LEVENE) 1913, 15, 363
- Tetracosanic acid (LEVENE, WEST, ALLEN, and VAN DER SCHEER) 1915, 23, 75
- C₂₄H₄₉I** Isotetracosyl iodide (LEVENE and WEST) 1914, 18, 480
- C₂₄H₅₀O** Isotetracosyl alcohol (LEVENE and WEST) 1914, 18, 479

C₂₄ III

- C₂₄H₂₆O₄N₆** Glucuronic acid osazone hydrazide (LEVENE and LA FORGE) 1913, 15, 75; 1914, 18, 240

C₂₄ IV

- C₂₄H₁₅ON₅Cl** Benzeneazobenzeneazochloroacetyl- β -naphthylamine (JACOBS and HEIDELBERGER) 1915, 21, 119

$C_{24}H_{33}ON_8Cl$ *p*-Chloroacetylaminobenzeneazodiethylaniline
and hexamethylenetetramine (JACOBS and HEIDEL-
BERGER) 1915, 21, 124

C₂₅ Group

$C_{25}H_{52}$ Pentacosane from cerebronic acid (LEVENE and JACOBS)
1912, 12, 386
(LEVENE and WEST) 1913, 14, 264

C₂₅ II

$C_{25}H_{44}O_4$ Docosylmalonic acid (LEVENE, WEST, ALLEN, and
VAN DER SCHEER) 1915, 23, 74
 $C_{25}H_{50}O_3$ Cerebronic acid (LEVENE and JACOBS)
1912, 12, 382
(LEVENE and WEST) 1913, 14, 258

C₂₅ IV

$C_{25}H_{28}ON_3Cl$ *p*-Chloroacetylaminoleucomalachite green (JA-
COBS and HEIDELBERGER) 1915, 21, 141
 $C_{25}H_{36}ON_7Cl$ Chloroacetylleucoauramine and hexamethylene-
tetramine (JACOBS and HEIDELBERGER)
1915, 21, 473
 $C_{25}H_{55}O_{54}P_9Ba_5$ Barium salt of wheat bran acid (ANDERSON)
1912, 12, 455

C₂₆ Group

$C_{26}H_{54}$ Isohexacosane (cerane) (LEVENE, WEST, and VAN DER
SCHEER) 1915, 20, 533
Hexacosane (LEVENE, WEST, and VAN DER SCHEER)
1915, 20, 529

C₂₆ II

$C_{26}H_{52}O_2$ Ethyl carnaubate (DUNHAM) 1908, 4, 299
Ethyl lignocerate (LEVENE) 1913, 15, 362
(LEVENE and WEST) 1913, 15, 193
Ethyl tetracosanate (LEVENE, WEST, ALLEN, and
VAN DER SCHEER) 1915, 23, 75
 $C_{26}H_{52}O_3$ Methyl cerebronate (LEVENE and WEST)
1913, 14, 261

C₂₆ IV

$C_{26}H_{22}ON_5Cl$ *o*-Tolueneazo-*o*-tolueneazoehloroacetyl- β -naph-
thylamine (JACOBS and HEIDELBERGER)
1915, 21, 120

$C_{26}H_{37}ON_8Cl$ *p*-(Chloroacetylaminobenzeneazodipropylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 125

C_{27} Group

C_{27} II

$C_{27}H_{21}N_5$ *o*-Tolueneazo- α -naphthaleneazo- β -naphthylamine (JACOBS and HEIDELBERGER) 1915, 21, 121

$C_{27}H_{52}O_4$ Acetylcerebronic acid (LEVENE and WEST) 1913, 14, 262

$C_{27}H_{54}O_3$ Ethyl cerebrionate (LEVENE and WEST) 1913, 14, 260

C_{27} IV

$C_{27}H_{30}ON_5Cl$ Chloroacetyltriphenylmethylamine and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 474

$C_{27}H_{37}O_3N_8Cl$ Chloroacetylaminoethyl *p*-(azodiethylaniline)-benzoate and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 413

C_{28} Group

$C_{28}H_{58}$ Octacosane (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 529

C_{29} Group

C_{29} II

$C_{29}H_{56}O_4$ Acetate of ethyl cerebrionate (LEVENE and WEST) 1913, 14, 261

Ethyl docosylmalonate (LEVENE, WEST, ALLEN, and VAN DER SCHEER) 1915, 23, 74

C_{29} IV

$C_{29}H_{35}ON_8Cl$ *p*-(Chloroacetylaminobenzeneazoethylbenzylaniline and hexamethylenetetramine (JACOBS and HEIDELBERGER) 1915, 21, 127

C_{30} Group

$C_{30}H_{62}$ Isotriacontane (melissane) (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 534

Triacontane (LEVENE, WEST, and VAN DER SCHEER) 1915, 20, 530

C₃₀ II

C₃₀H₅₄O₆	Isomannid dilaurate (BLOOR)	1912, 11, 423
C₃₀H₅₆O₇	Mannite dilaurate (BLOOR)	1912, 11, 421

C₃₁ Group**C₃₁ IV**

C₃₁H₄₀ON₇Cl	<i>p</i> -Chloroacetylaminoleucomalachite green and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 141
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C₃₂ Group

C₃₂H₆₆	Dotriacontane (LEVENE, WEST, and VAN DER SCHEER)	1915, 20, 530
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C₃₂ IV

C₃₂H₇₅O₆N₂S₂	Thiotyrosine disulfide dibenzoate (JOHNSON and BRAUTLECHT)	1912, 12, 193
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C₃₄ Group

C₃₄H₇₀	Tetratriacontane (LEVENE, WEST, and VAN DER SCHEER)	1915, 20, 531
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C₃₅ Group**C₃₅ IV**

C₃₅H₄₈ON₇Cl	<i>o</i> -Chloroacetyl-amino- <i>p'</i> , <i>p''</i> -tetraethyldiaminotriphenylmethane and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 142
	<i>p</i> -Chloroacetyl-amino- <i>p'</i> , <i>p''</i> -tetraethyldiaminotriphenylmethane and hexamethylenetetramine (JACOBS and HEIDELBERGER)	1915, 21, 142

C₃₆ Group

C₃₆H₇₄	Hexatriacontane (LEVENE, WEST, and VAN DER SCHEER)	1915, 20, 531
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C₃₆ II

C₃₆H₂₄O₈	Tribenzoylbaptisol (CLARK)	1915, 21, 655
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C₄₂ Group**C₄₂ II**

C₄₂H₇₈O₆	Isomannid distearate (BLOOR)	1912, 11, 145
	Mannid distearate (BLOOR)	1909-10, 7, 427; 1912, 11, 143
C₄₂H₈₀O₇	Mannitan distearate (BLOOR)	1912, 11, 144

SUGGESTIONS FOR THE PREPARATION OF MANUSCRIPTS.

COPY.

All manuscripts should be copied with triple spacing and $1\frac{1}{4}$ inch margins.

The original typewritten copy should be submitted for publication, not a carbon copy. It should be sent flat, not rolled or folded. All corrections on the manuscript should be clearly written in ink. Manuscripts should be consistent in style; a word should not be abbreviated in one line and written out a few lines below.

TITLE.

The title should be written on a separate sheet. The author's name, the laboratory where the work was done, and the words, Received for publication, should be written on a separate sheet.

An abbreviated form of the title, not exceeding thirty-six letters in length, and the author's name and initials, to be used as running headlines, should be given, also on a separate sheet

HEADINGS.

Major headings, such as INTRODUCTION, EXPERIMENTAL, DISCUSSION, SUMMARY, CONCLUSION, BIBLIOGRAPHY, EXPLANATION OF FIGURES, also TABLE in table headings, are printed in small capitals, and therefore should be underlined twice.

Minor headings, whether center or side, and descriptive matter in table headings, are printed in italics, and therefore underlined once in the manuscript. Capitalize the nouns, adjectives, pronouns, verbs, *Cc.*, *Gm.*, *per Cent*, etc.

Dates are not underlined, except when they occur in an italicized heading.

The form September 15, 1915, is preferred to IX-15-15.

TEXT.

Begin every experiment, table, or quotation of over five lines on a new sheet. When the text is resumed start with another fresh sheet. This method brings the material of the entire manuscript in sequence, but permits, without mutilation of the manuscript, the separation in the Printer's office of tables, and all other small type, which are set up separately.

Number the sheets consecutively throughout. Mark in ink the place for each illustration.

TABLES.

The form for table headings has already been given under "HEADINGS." Table column headings are written in small letters and followed by periods (see Table I).

Words like *gm.*, *cc.*, *per cent*, $^{\circ}\text{C.}$, etc., referring to an entire column in a table, are written in small letters at the top of the column, and underlined once.

In tables use ditto marks for words when possible, but not for figures.

TABLE I.

Changes in the Blood of Rabbit 1 after Hemorrhage.

Date.	Amount of blood re- moved.	Hemo- globin.	Red blood corpuscles.	Remarks.
<i>1915</i>	<i>cc.</i>	<i>per cent</i>		
Sept. 13	10	89	5,160,000	Weight 1,605 gm.
" 14	10	68	2,870,000	No nucleated red cells.
" 15	10	75	3,990,000	" " " "
" 16	10	58	3,070,000	" " " "

FOOT-NOTES.

Foot-Notes to Text.—Typewrite all foot-notes together at the end of the paper and number them consecutively from 1 up, to correspond with the reference numbers in the text.

Number all foot-note references consecutively throughout the paper; *i.e.*, if the foot-note references on the first page are 1, 2, 3, those on the second page should be 4, 5, 6, etc. Superior numerals (located as ¹, ², ³) should be used in the text to indicate foot-notes.

Double spacing should be used in typewriting foot-notes.

Foot-Notes to Tables.—Foot-notes to tables are starred (*, **, †, ‡, etc.), not numbered, in order to distinguish them from foot-notes to text.

REFERENCES.

References are usually printed in the form of foot-notes, and as such are numbered and located with the other foot-notes. If a given article is referred to more than once, the foot-note is printed only with the first reference. The number of the foot-note is repeated at subsequent points in the text where the same article is referred to. Do not use *loc. cit.*

If the author prefers, the references may be printed in a bibliography at the end of the paper. In this case one of two systems is usually adopted: (a) The references in the bibliography are arranged and numbered in the order of their appearance in the text and independently of the foot-notes. (b) They are arranged alphabetically according to the names of the authors. In this case the text reference is the name of the author followed by the year of the publication referred to. If more than one article by the same author in a given year is referred to, the letters *a*, *b*, *c*, etc., may be used to differentiate them. This system is convenient because, among other reasons, of the ease with which new references can be inserted in the manuscript, and of the readiness with which a given reference can be located in the printed bibliography.

Text references to a bibliography are indicated by numbers in parentheses instead of the superior numbers used for foot-notes. Thus "Ehrlich¹" indicates a foot-note; but "Ehrlich (1)" or "Ehrlich (1910, a)" or "(Ehrlich, 1910, a)" indicates a reference in the bibliography. Two separate series of numbers can thus be used in the same text to indicate respectively foot-notes and references in the bibliography.

The form for references is indicated by the following example,

the order of data being: author, initials, journal (underlined), year, volume (small Roman numerals), and page:

³ Fischer, E., *Ber. chem. Ges.*, 1889, xxii, 87.

The abbreviations used by the *Journal* for the most commonly cited publications are listed below.

<i>Am. Chem. J.</i>	<i>Ergebn. allg. Path. u. path. Anat.</i>
<i>Am. J. Physiol.</i>	<i>Gazz. chim. ital.</i>
<i>Ann. Chem.</i>	<i>J. Agric. Research.</i>
<i>Ann. chim. phys.</i>	<i>J. Am. Chem. Soc.</i>
<i>Arch. exp. Path. u. Pharm.</i>	<i>J. Am. Med. Assn.</i>
<i>Arch. ges. Physiol.</i>	<i>J. Biol. Chem.</i>
<i>Arch. Int. Med.</i>	<i>J. Chem. Soc.</i>
[Arkansas] <i>Agric. Exp. Station, Bull.</i>	<i>J. Exp. Med.</i>
[5, 1915].	<i>J. Ind. and Eng. Chem.</i>
<i>Ber. chem. Ges.</i>	<i>J. Pharm. and Exp. Ther.</i>
<i>Berl. klin. Woch.</i>	<i>J. Physiol.</i>
<i>Biochem. J.</i>	<i>J. prakt. Chem.</i>
<i>Biochem. Z.</i>	<i>Monatschr. Chem.</i>
<i>Bull. Hyg. Lab., U. S. P. H.</i>	<i>Proc. Roy. Soc., Series B.</i>
<i>Bull. Soc. chim.</i>	<i>Proc. Soc. Exp. Biol. and Med.</i>
<i>Carnegie Institution of Washington,</i>	<i>Rec. trav. chim. Pays-Bas.</i>
<i>Publication No. [156, 1911].</i>	<i>U. S. Dept. Agric., Bureau of [Plant</i>
<i>Chem. Abstr.</i>	<i>Industry], Bull. [31, 1914].</i>
<i>Chem. Zentr.</i>	<i>Z. physik. Chem.</i>
<i>Compt. rend. Acad.</i>	<i>Z. physiol. Chem.</i>

In order to distinguish books from periodicals, titles of books are not underlined. The place of publication, the year, and the page should be given, and the edition when there is more than one.

References to books and journals should not be inserted in the text.

EXPLANATION OF FIGURES.

Typewrite explanations of the figures, whether for plates or text-figures, and number them to correspond with the figures to which they refer. The Bibliography precedes the Explanation of Figures.

FORMS AND ABBREVIATIONS.

Gram = gm.	a.m., p.m. (lower case).
Cubic centimeter = cc.	In both large and small type write 30 cc., 20 mg., 20 gm.
Centimeter = cm.	Always write 0.25; <i>i.e.</i> , with a zero before the decimal point.
Millimeter = mm.	
Milligram = mg.	
Kilogram = kilo or kg.	
per cent (without a period).	

Use the form 193–194.5°, placing the degree mark at the end only.

Use $[\alpha]_D^{20}$ for specific rotation (for 20° and sodium light). The values for $[\alpha]$ are best expressed in the following way:

$$[\alpha]_D^{25} = \frac{-0.25^\circ}{1} \times \frac{2.1662}{0.1505} = -3.58^\circ$$

For normal and molecular solutions the expressions 2.5 N and 0.5 M are preferred to 2½ N and ½ M. In exceptional cases, however, as 3/16 M, the fractional form is more convenient.

Hydrated salts should be written as CuSO₄·5H₂O.

Small numbers in the text are usually written out, large numbers expressed in numerals; thus seven, but 250.

In numbers of four figures or over use commas; as 1,000, 10,000.

SPELLING.

Words like hemorrhage, anesthetic, etc., are spelled with *e* (not *ae*).

Use *f* instead of *ph* for sulfur and sulfur derivatives.

Words serving as special names of definite objects, such as Experiment 8, Table I, Rabbit 1, are written with capital letters.

NOMENCLATURE.

The usage of the American Chemical Society is followed. The following rules cover most of the terms used in this *Journal*.

Hydroxyl derivatives of hydrocarbons are to be given names ending in *-ol*; as *glycerol*, *cholesterol*, *pinacol* (not *pinacone*). This applies also to alcohols of the sugar series, as *mannitol*, *heptitol*, etc.

Compounds which are not alcohols but have received names ending in *-ol* should be spelled *-ole*; as *anisole*, *indole*. (German hydrocarbon names, as *Benzol*, *Toluol*, etc., are to be written *benzene*, *toluene*, etc.)

Hydroxy- and not oxy- should be used in designating a hydroxyl compound; as *hydroxyacetic acid*, $\text{CH}_2(\text{OH})\text{CO}_2\text{H}$, (not *oxyacetic acid*).

As regards the endings *-in* and *-ine*, the latter should always be used for *basic* substances, and for them only; *-in* is used for glycerides, glucosides, bitter principles, proteins, etc.; thus *aniline*, *tyrosine*, *purine*, *morphine*; but *gelatin*, *palmitin*, *amygdalin*, *albumin*, *protein* (not *proteid*).

When a substituent is one of the groups NH_2 , NHR , NR_2 , NH , or NR , its name should end in *-ino*; thus $\text{NH}_2\text{CH}_2\text{CH}_2\text{CO}_2\text{H}$, β -*amino*-propionic acid (not *amidopropionic acid*); $\text{C}_6\text{H}_5\text{NHCH}_2\text{CH}_2\text{CO}_2\text{H}$, β -*anilinopropionic acid*; $\text{CH}_3\text{CH}_2\text{NH}_2\text{CO}_2\text{H}$, α -*aminopropionic acid*.

The term *ether* must not be used for compounds which are properly called *esters*. Esters and metallic salts should be designated in the form, *diethyl phthalate*, *methyl hydrogen succinate*, *sodium propionate*, etc. (not as the *diethyl ester of phthalic acid*, the *monomethyl ester of succinic acid*, or the *sodium salt of propionic acid*).

Acid radicals, such as $\text{C}_6\text{H}_5\text{C}'\text{O}$, must have names ending in *-yl*, and their compounds with halogens, as $\text{C}_6\text{H}_5\text{COCl}$, are to be termed *chlorides*, *bromides*, etc. Thus, *benzoyl chloride* (not *chloride of benzoic acid* or *benzoic acid chloride*).

The connective *o* is to be used in such combining forms as *amino-*, *bromo-*, *chloro-*, *ciano-*, and *iodo-*; thus *bromobenzene*, *chloroacetic*, *nitroaniline*. A few exceptions to this rule are permitted on account of long established usage; as *acetamide*, *cyanamide*.

Substances containing the group SO_3H should, if possible, be called *sulfonic acids*; failing this, *sulfo compounds*; thus *phenyl-sulfonic acid*, $\text{C}_6\text{H}_5\text{SO}_3\text{H}$, and *sulfobenzoic acid*, $\text{HO}_2\text{CC}_6\text{H}_4\text{SO}_3\text{H}$.

Salts of organic bases with hydrochloric acid should be called *hydrochlorides* (not *hydrochlorates* or *chlorhydrates*).

Salts of chloroplatinic acid are called *chloroplatinates* (not *platinichlorides*), and the formulas should be written in the form

$(\text{CH}_3\text{NH}_2)_2\text{H}_2\text{PtCl}_6$. Salts of thiocyanic acid, HCNS , should be called thiocyanates. Use sodium thiosulfate for $\text{Na}_2\text{S}_2\text{O}_3$.

The word hydroxide should be used for a compound with OH , and hydrate for a compound with H_2O ; thus, chlorine hydrate, $\text{Cl}_2 \cdot 10\text{H}_2\text{O}$; barium hydroxide, $\text{Ba}(\text{OH})_2$.

Greek letters should be indicated by Gk. on the margin of the manuscript.

The following letters are italicized and should be underlined: *o*-, *m*-, *p*-, *d*-, and *l*-, for ortho, meta, para, dextro, and levo.

Use *dl*- (not *r*-) for racemic.

CHARTS.

Ink.—Charts should be drawn with black ink.¹ Blue-black ink and typewriting do not make good reproductions.

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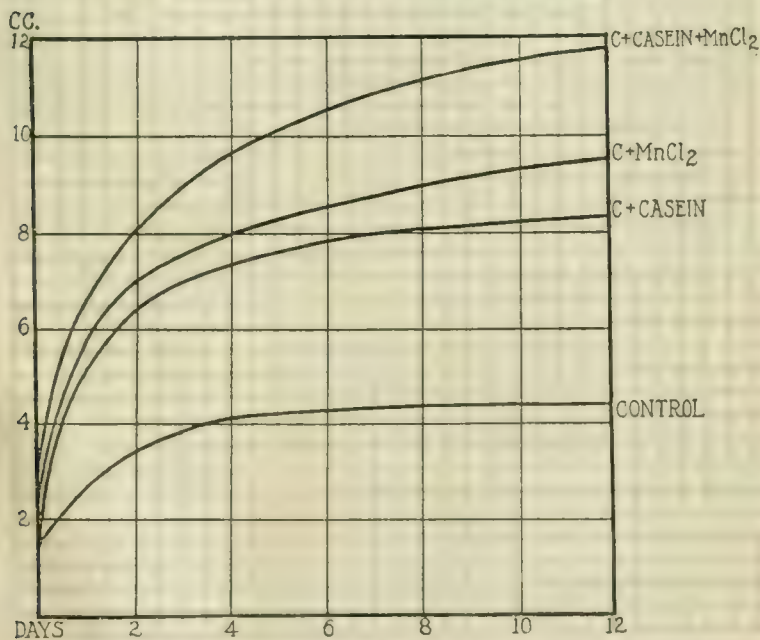
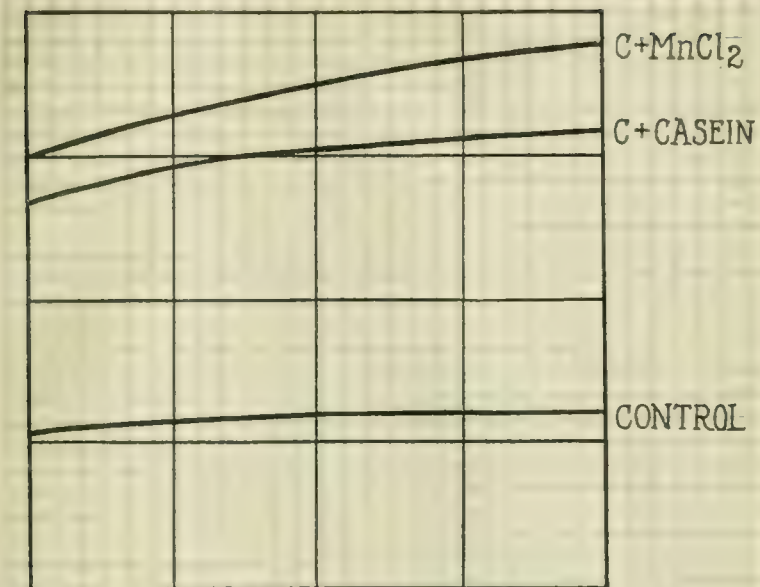
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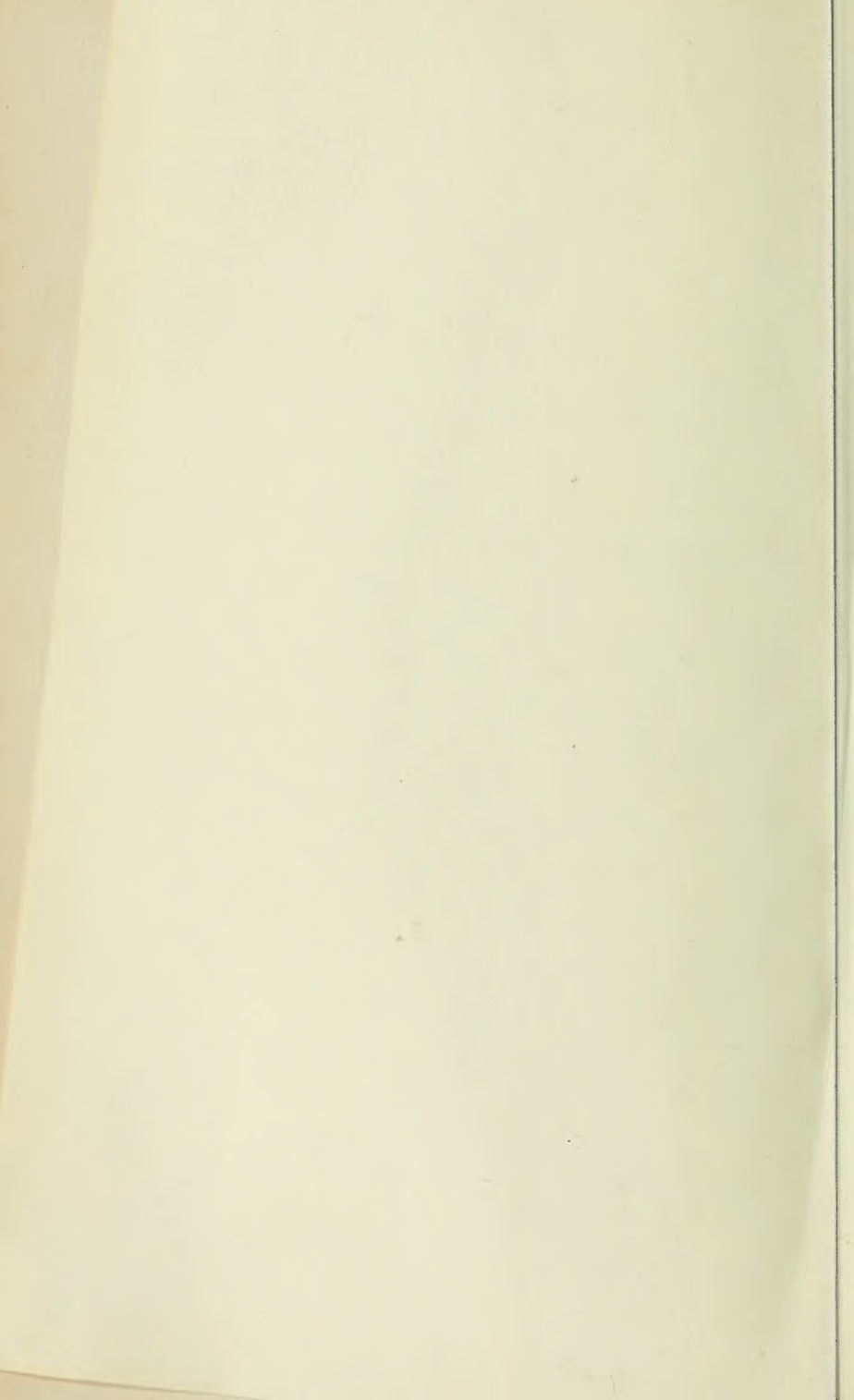
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